From	<u> 70</u>	Total Feet	Formation
			from 1740-1758, and 1762-1789. Drill stem test from 1729-1758, showing 510 of sulphurous saline water and no trace of oil or gas.
1781	1818	37	Sandstone, whote to light gray with greenish tone, fine and medium grained, dense.
1818	1830	12	Shale, dark chosolate-red, pinkish-red, red, purple, sandy; Sandstone, light pinkish-red, fine
1830	1946	116	Sandstone, light gray to light buff, light tan and tan, medium grained, subangular to subround, slightly limy, eross-bedded. Cored 1840-2062. Streaky somes and irregular spletches of oil saturation along cross-bedding from 1827-19001; boot and interest and irregular spletches of oil saturation along cross-bedding from 1827-19001;
1946	2045	99	tion from 1890 to 18911 and 18961-19001. Drill stem test from 1867'8" to 1913! showing no oil or gas and only 40 feet of fluid believed to be mainly drilling fluid. Sandstone, light gray and very pale grayish-buff, medium grained, subangular to subround, slightly limy, cross-bedded; 1" bed of greenish-gray, sandy shale at top.
2045	2060	15	Sandstone, dark chocolate-red, fine, non-limy, cross- bedded; some deep reddish-tan sandstone; 2" of dark
2060	2220	160	Sandstone, red, shaly, fine, slightly live, and shale
2220	2230	10	Sandstone, red, shalv, fine, slightly lime, and
2230	2250	20	Limestone, gray, light gray, and beamight gray
2250	2330	80	Sandstone, red, shaly, fine, slightly limy; and shale
2330	2340	10	Shale, red, sandy; Shale, dark red and purple; Sand- stene, red, fine, shalv
2340	2380	40	Sandstone, white with a few small brown limonitie
2360	2450	70	Sandstone, as above; and Sandstone. light tax since
2450	2540	90	AMERICAN DESIGNATION
2540	2560		Sandstone, as above, with some deeper tan sandstone
2560	-	20	The substant of the substant o
	2570	10	The state of the s
2570	2580	10	Sandstene, as above; and shale, light red, sandy, slightly limy
2500	2600	20	Shale, red, misaceous, silty, soft; a little lime- stone, gray, limenitie; and sandstone, light red, medium with red shale grains

From	To	Total Feet	<u>Formation</u>
2600	2620	20	Sandstone, light red medium with med about and
			Sandstone, light red, medium, with red shale grain Sandstone, yellow-ocher, fine; Shale, very dark
2620	2630	10	marcon-red, sandy; chert
2630	2640	10	Sandstone, light marcon-red, medium, very micaseo
2640	2650	10	banks tone, fight red, line, shaley
2650	2660	10	Sandstine, red, shaly
2070	2000	ш	Sandstone, white to pinkish-gray, medium, red, grand black grains; Shale, red
2660	2720	60	Sandstone, white to pinkish-gray, medium, red, grand black grains and black grains.
2720	2730	10	mid brack Brains; some red and green shales
-,~	2130	10	no samples
•			(Fault at 2730' cutting out approximately 180' of lower Chinle, and duplicating 635' of section, consisting of: 260' of Kayenta, 305' of Wingate, and 70' of Chinle)
2730	2 78 0	5 0	KAYENTA
2780	2820	50 40	Sandstone, light brownish-gray to pale tan, fine
	~0.0	ĄU	James to the contract of the c
2820	2830	10	samustone, pink, line
2830	2910	80	Sandstone, pinkish-tan to pink, fine
	2720	80	Sandstone, light brownish-gray to pale tan, fine,
2910	297 0	60	sandstone, pink. Tine
2970	2990	20	Sandstone, light brownish-gray to pale tan
2990	3120	-	Sandstone, light brownish-gray, fine WINGATE
)12U	130	Sandstone, light gray to brownish-gray, fine (Cored 3014-3024; oil stain and dead hydrocarbon 3017-3020)
31.20	3140	20	Sandstone, brownish-gray, fine
3140	31.50	10	Sandstone brownish come and like the sand as
			Sandstone, brownish-gray and light red; Shale deep red to maroon-red
3150	3210	60	
3210	3240	30	Sandstone, light red, fine
3240	3295	55	Sandstone, light gray and brownish-gray, fine
•	2~72	"	Sandstone, light red, fine; some shale, red
3295	3340	45	Sandstone light and Mark
3340	3360	20	Sandstone, light red, fine; some shale, red,
3360	3370	10	Sandstone, brownish-gray, fine
= -			Sandstone, brownish-gray and light red; a little
3370	3380	10	shale, red and green No samples
3380	3395	15	
- -	0010	~/	Sandstone, brownish-red; some chert
3395	3500	105	MOENKOPI
	7,500	-4)	Sandstone, brownish-red, fine, slight micaceous;
3500	3510	10	sandstone, perplish-red
	,,,,,,,	~~	Sandstone, light gray to greenish-gray, fine; sand-
3510	3520	10	avers, premnish-red and purplish-red
-,- 	<i>))~</i>		Shale, pale lavender-gray, limy; shale, greenish- gray, limy; sandstone, brownish-red and light gray fine
3520	3540	20	118
, , , , ,	JAMA	20	Shale, brownish-red, slightly misassens; and sand- stone, brownish-red, very fine

From	To	Total Feet	<u>Pormation</u>
3540	3550	10	
355 0	3650	100	Sandstone, greenish-gray, fine, limy
	,,,,,	200	animatoria, prownian-red, fine, some shift
3650	3660	10	
- • •	_		Sandstone, pink, medium to coarse, conglomeratic,
3660	368 0	20	sandstone, purplish-red, micaceous, conglomeratic, Sandstone, brownish-red, micaceous, conglomeratic
2/ 20			
3680	3695	15	to coarse, conglomeratic, chert
			Sandstone, brownish-red; shale, brownish-red, fine (Fault at £695) causing loss of manual shared, fine
			normal section consisting of lear 460' of
			underminable thickness of upper Hermosa formation)
3695	37 20	25	
	3120	25	Limestone, light gray tan and ha
3720	3730	10	
3730	3760	30	Share, Diack: limestone and sand-
	2,00	<i>5</i> 0	
3760	37 8 0	20	
			TARITY CARL CAPE PROTECTION TO THE TARITY OF
3780	379 0	10	
379 0	38 00	10	Sandstone, dark gray, fine, limy; and Anhydrite
38 00	382 0	20	
2600			Sandstone, brownish-gray, light gray to gray, fine, limy
36 20	3830	10	
3830	24/ =		Sandstone, light gray to gray, fine, limy; Anhydrite; and Shale, black
3865	3 8 65	35	Anhydrite, white; and Shele, block
	3880	15	bandstone, light grav. fine light shall be a
3880	3890	10	
	J070	10	Sandstone, as above; Anhydrite, white to light gray,
389 0	390 0	10	
	3 ,00	10	Sandstone, as above; Shale, brownish-red, Anhydrite,
3900	3910	10	
<i>3</i> 910	3920	10	Sandstone, as above; Shale, brownish-red
			Sandstone, brownish-gray and light gray, fine, dolomitic
392 0	<i>3</i> 9 <i>5</i> 0	3 0	
2050			Sandstone, gray to dark gray, fine; Shale, black;
3950	3960	10	Anhydrite, white to light gray, fine Sandstone, light and dark gray, fine, dolomitic; Shale, black
3960	2040		
J760	3980	20	Sandstone, brownish-gray and dank
3980	3990	10	
3990	4000	10	AMENDA AND A DECEMBER TO PROPERTY OF THE PROPE
2770	4000	10	The state of the s
4000	4010	10	
4010	4020	10	Annyurite, white to light grow Alan and
4020	4100	80	
			wennesser of the state of the second of the
4100	4110	10	
		-	The delication of the second o
			black; and Limestone, brewn & light gray, fine,

From	<u>To</u>	Total Foot	<u>Formation</u>
4110	4120	10	
4120	4130	10	Anhydrite, white to light gray; Shale, black
4130	4140	10	Sandstone, light gray, fine, dolomitic; Shale, black Sandstone, as above; and Shale, light gray, soft, limy
4140	4170	30	
4170	41.80	$\widetilde{10}$	Sandstone, as above; some Shale, black
4180	4190	10	contraction as above: Anhydrite, and chal-
4190	4200	10	Sandstone, light gray fine year delegated
4200	4220	20	
4220	4250	30	Anhydrite, white to light gray fine, some Shale
4250	4270	20	Sandstone, light gray, fine, dolomitic; some Shale, light gray
4270	4290	20	Sandstone, as above: some Limestone bearing
4290	4300	10	Sandstone, white to light gray fine delight
4300	4310	10	Sandstone, white to light gray fine delented
4310	4320	10	Sandstone, as above; and Anhydrite, white to light
4320	4330	10	0° ~V
4330	4340	10	Sandstone, white to light gray, fine, dolomitic Anhydrite, white, crystalline, with salt cavities; thin beds or fracture fillings of salt indicated by drilling time and
4340	4357	17	by drilling time and water analysis Anhydrite, as above, Sandstene, light gray, fine, dolomitic; Shale, light gray; and thin beds of salt indicated by drilling time and water analysis PARADOX (Note: Top Paradex Salt - 4357!. Drilling time and water analysis indicates solid salt at 4357!. The contact between the Hermesa and the Paradex salt section appears to be gradational, with thin
4357	4372	15	beds of salt or possibly fracture fillings occuring from 4324 to 43571.) Salt, indicated by water analysis and drilling time;
4372	4382	10	Salt, indicated by drilling time (sored but no
4342	4422	40	Halite, clear, coarse; stringers of anhydrite 44-
4422	4423	1	Anhydrite, white to light gray, fine; some study
4423	4425	2	Sandstone, gray, fine, with thin hade of enhanced
4425	4430	5	Sandstone, gray, fine: fracture fillings of white
4430	4459	29	and white delemite; dip 20-25 Sandstene, gray, fine, delemitie, shaly; a few thin bods of Shale, gray; blobs of white ambydrite; dip 20-25-30; fracture fillings of white and red halite

•

free	<u>To</u>	Total Feet	<u>Fernation</u>
4459	4473	14	Anhydrite, white to light gray, fine; veinlets and thin broken beds of Shale, gray, sandy, delomitic; dip 30
4473	4475	2	Shale, dark gray, sandy, delomitic, brecciated; fracture fillings pink and white halite
4475	4478	3	Sandstone, dark gray, shaly, dolomitic; fracture fillings of pink and white halite
4478	4479	1	Anhydrite, white to light gray, fine; thin beds of Shale, gray, sandy; lower contact dip 40
4479	4488	9	Halite, clear, coarse, some stringers of gray anhydrite and tan halite with disseminated polyhalit
4488	4516	28	Halite, clear, coarse; some stringers of anhydrite; dip 35-45
4516	4532	16	Halite, clear, coarse and massive; some stringers disseminated black shale and anhydrite; dip 20
4532	4709	177	Halite, clear, coarse and massive; stringers of anhydrite; dip 25-45 (dip 60 and reversals in dip 4542* - 4552*)
4709	4785	76	Halite, medium and coarse, core clear to milky to smoky, stringers of finely disseminated black shale, petroliferous odor along some black shale stringers, dip 20-30
4785	4838	53	Halite, medium and coarse, core clear to milky to slightly mmoky; a little finely disseminated black shale, dip 20-25
4836	4860	22	Halite, medium, core smoky to gray; stringers of finely disseminated black shale, petroliferous oder along stringers, dip 15-20
4860	4874	14	Shale, black, carbonaceous (very little recovered) Show of gas at 4867
4874	4923	49	Halite, clear, coarse; stringers of disseminated black shale and anhydrite, petroliferous odor along black shale stringers; dip 15-20
4923	4981	58	Halite, clear, coarse; a few stringers of black shale and anhydrite; dip 25-30
4981	5006	25	Halite, clear, coarse, much finely disseminated black shale; dip 20-25

CORRECTION: 5006 * R.T.M. equals 5012 *6" 8.L.M.

TOTAL DEPTH: 501216" S.L.M.

POTASH COMPANY OF AMERICA - VRIGHT No. 8

Location: SE; SE; SW;, sec. 33, T. 21 S., R. 19 E.
330' from S. lime, and SSLO' from V. lime of Sec. 33
Crescent Area, Grand County, Ttah
Elevation: 4871' (Rotary table), 4865' (Ground)

Free	70	Thickn	Portation
0	6	6	Retary table is 6' above surface
6	20	24	Shale, yellowish-brown, sandy, limonitie, seft; and Shale, gray, sandy; Selenite
30 1180	1190 1225	1160 36 465	Shale, dark grey, limy, slightly sandy Sendstone, light grey and grey, fine, limy Shale, dark grey, limy, slightly sandy;
1295	1690	400	Some Stall commit
,			(Pault or unconformity causing loss of approximately 1250' of normal section, consisting of 100' of Mances above Ferron, 40' of Ferron, 880' of Mances below Ferron, and 740' of Marrison)
			gov of Dakova, and 740 of the same
1610	1710	20	Shale, brownish-red; Sandstone, white, light gray, greenish-gray, light brown, brownish- red; Limestone, light pink to pinkish-gray;
1710	1736	26	Shale, red, light eregge-red, sandy; series, stone, red to light erenge-red, fine, shaly; Calsite
• 1736	1781	45	Semistone, white to very light gray, medium grained and uniform, subsected to round; a few bands of all enturation 1/8" to 2/4" thick from 1787-1788, decreasing to splotches of enturation and finally disappearing in lever part; sered from 1740-1768', and 1769-1769', Drill stem test from 1769-1768', showing 610' of sulphurous saline water and no trace of all or gas.
1701	1818	87	Sandstone, white to light grey with grounds tone, fine and medium grained, dense
1818	1830	12	Shale, dark checklete-vet, pinkish-red, red, purple, sandy; Sandstone, light pinkish- red, fine



Zron		Dielme	Permetion
1890	1946	116	Sendstone, light gray to light buff, light ten and ten, medium grained, subangular to sub-round, slightly limy, cross-bedded. Cored 1840 - 2062'. Streaky sones and irregular splotches of oil esturation along cross-bedding from 1837 - 19004'; best saturation from 1890 - 18914' and 18964' - 19004'. Drill stem test from 1887'8" to 1913' showing me oil or gas and only 40 feet of fluid believed to be mainly drilling fluid. Sendstone, light gray and very pale grayish-buff, medium grained, subangular to subround, slightly limy, cross-bedded; 1" bed of greenish-gray, sandy shale at top.
2045	2060	15	KAYENTA Sandstone, dark chocolate-red, fine, non-limy,
			crees-bedded; some deep reddish-tan sandstone; 2" of dark purple-red shale at 2049'.
2060	2280	160	Sendstone, red, shaly, fine, slightly limy; and shale, red, sandy
2220	8830	10	Sendstone, red, shaly, fine, slightly limy; and Shale, dark greenish-gray to dark purplish-
2230	2880	20	Limestone, gray, light gray, and brownish-gray, argillaceous, very fine; and Shale, gray,
2250	2830	80	herd, limy Sendstens, red, shaly, fine, slightly limy; and
2330	2340	70	Shale, red, sandy Shale, red, sandy; Shale, dark red and purple; Sendstone, red, fine, shaly
2340	2290	40	Sandstone, white with a few small brown limonitie
2380	9460	70	Sandstone, as above; and Sandstone, light tan,
9450	2540	90	fine, subangular to subround Sandstone, as above, with some deeper tan sand-
2640	2060	20	Sendstone, pinkish-tan, fine, subangular to
2560	-		entround .
2070	348	38	Sundatone, light red, fine, slightly shaly Sundatone, as above; and Shale, light red,
2000	2600	20	male, red, memorie, silty, soft; a little limetone, gray, limenitie; and sandstone,
2600	2660	20	light red, medium with red shale grains Sandstone, light red, medium, with red shale grains; Sandstone, yellow-other, fine; Smale, very dark marcon-red, sandy; short
8690	2630	10	Sandstone, light marcon-red, medium, very miceocous

Pron	To	Thickness	Formation
2630	2640	10	Sandstone, light red, fine, shaly
2640	2660	10	Sandstone, red, shaly
2650	2660	10	Sandstone, white to pinkish-gray, medium, red, green, and black grains; Shale, red
2660	2720	6 0	Sandstone, white to pinkish-gray, medium, red, green, and black grains; some red and green shales
2720	2730	10	No samples
			(FAULT at 2730' cutting out approximately 180' of lower Chinle, and duplicating 635' of section, consisting of: 260' of Kayenta, 305' of Wingate, and 70' of Chinle)
2730	2780	5 0	Gandstone, light brownish-gray to pale tan, fine
2780	2820	40	Sendstone, light brownish-gray to pale tan.
2820	2830	10	fine, and sandstone, pink, fine Sandstone, pinkish-tan to pink, fine
2830	2910	80	Sandstone, light brownish-gray to pale tan, fine; sandstone, pink, fine
2910	2970	6 0	Sandstone, light brownish-gray to pale tan
2970	2990	20	Sandstone, light brownish-gray, fine
2990	3120	130	Sandstone, light gray to brownish-gray, fine (Cored 3014' - 3024'); oil stain and dead hydrocarbon 3017' - 3020'
3120	3140	20	Sandstone, brownish-gray, fine
3140	3150	10	Sandstone, brownish-gray and light red; Shale deep red to maroon-red
3150	3210	60	Sandstone, light red, fine
3210	3340		Sandstone, light gray and brownish-gray, fine
3240	3295		Sandstone, light red, fine; some shale, red
			CHINLE
3295	3340	45	Sandstone, light red, fine; some shale, red,
3340	3360	20	Sandetone. brownish-grav. fine
3360	3370	10	Sandstone, brownish-gray and light red; a little shale, red and green
3370	3380	10	No samples
3380	3395	15	Sandstone, brownish-red; some chert
3395	3500	105	MOENKOPI Sandstone, brownish-red, fine, slightly
	-	— -	micaceous; sandstone, purplish-red
3500	3510	10	Sandstone, light gray to greenish-gray, fine, sandstone, brownish-red and purplish-red
3510	3520	10	Shale, pale lavender-gray, limy; shale, greenish-gray, limy; sandstone, brownish-red and light gray, fine

From	To	Thiekne	Formation
3520	3540	50	Shale, brownish-red, slightly micaceous; and sandstone, brownish-red, very fine
3540	3550	10	Sandstone, greenish-gray, fine, limy
3550	3650	100	Sandstone, brownish-red, fine; some shale,
	••••		brownish-red, s andy
3650	3660	10	Sandstone, pink, medium to coarse, conglomeratic, sandstone, purplish-red, micaceous, conglomeratic
3660	3680	80	Sandstone, brownish-red, pink, pale lavender, medium to coarse, conglomeratic; chert
3680	3695	15	Sandstone, brownish-red; shale, brownish-red, fine
			(FAULT AT 3695 causing loss of more than 460 of normal section, consisting of 150 of denkopi, 260 of Cutler, 50 of Rico, and a large but underminable thickness of upper Hermosa formation)
3695	3720	25	Limestone, light gray, tan and brown; sandstone, white to light gray, fine
3720	3730	10	Shale, black; limestone and sandstone, as above
3730	3760	30	Sandstone, light gray to gray, fine, limy; limestone, light brown; and shale, black
3760	3780	20	Sandstone, light and dark gray, fine, limy; some shale, black
8780	3790	10	Sandstone, dark gray, fige, limy; and Anhydrite
3790	3800	10	Samistone, light gray to gray, fine, limy
3800	3820	20	Sandstone, brownish-gray, light gray to gray, fine, limy
3 620	3820	10	Sandstone, light gray to gray, fine, limy; Anhydrite; and Shale, black
3830	3865	35	Anhydrite, white; and Shale, black
3865	38 80	15	Sendstone, light gray, fine, limy; Shale, light gray, sendy, limy
3880	3890	10	Sandstone, as above; Anhydrite, white to light gray, fine
3890	3900	10	Sandstone, as above; Shale, brownish-red; Anhydrite, white to light gray, fine
3900	3910	10	Sandstone, as above; Shale, brownish-red
3910	3920	10	Sandstone, brownish-gray and light gray, fine, dolomitic
3920	395 0	3 0	Sandstone, gray to dark gray, fine; Shale, black; Anhydrite, white to light gray, fine
3950	29 60	10	Sandstone, light and dark gray, fine, dolomitic; Shale, black
3960	3980	20	Sandstone, brownish-gray and dark gray, fine, dolemitie; Shale, black, carbonaceous
• > *	3990	10	Sandstone, brownish-gray to brown, fine, dolomitic
: 11%3	1874 ()	10	Sendstone, as above; Anhydrite; and Limestone, and brown, fine, dense

From	To	Thickne	Formation
4000	4030	**	Anhydrite, white to light gray, fine; & Shale
4000	401 0 402 0	10 10	Anhydrite, white to light gray, fine
4010		80	Sandstone, brownish-gray and light gray, fine;
4020	4100	20	Anhydrite; Shale, black and light gray
43.00	4110	10	Sandstone, light gray, fine, dolomitic; Shale,
4100	4110	10	black; and Limestone, brown a light gray,
			fine. dense
4110	4120	10	Anhydrite, white to light gray; Shale, black
4120	4130	īŏ	Sandstone, light gray, fine, dolomitic;
			Shale, hleck
4130	4140	10	Sandstone, as above; and Shale, light gray,
			soft. limv
4140	4170	30	Sandstone, as above; some Shale, black
4170	41.80	10	Sandatone, as above; Anhydrite; and Shale, grad
4180	4190	10	Sandstone, as above: some Shale, gray
4190	4200	10	Sandstone, light gray, fine, very dolomitic;
			Limestone, light brown & light gray, fine,
			dense
4200	4220	20	Sandstone, as above; some Shale, gray & black
4220	4250	3 0	Anhydrite, white to light gray, fine; some
			Shale, black, Sandstone and Limestone
4250	4270	20	Sandstone, light gray, fine, dolomitic; some
			Shale, light grey,
4270	4290	20	Sandstone, as above; some Limestone, brown,
			fine, dense; and Shale, black
4290	43 00	10	Ambydrite, white to light gray, fine; a little
			limestone, and black shale Sandstone, white to light gray, fine, dolo-
4300	4310	10	mitic; a little Shale, black & gray
	4000	10	Sandstone, as above; and Anhydrite, white to
4310	4320	10	Saint coney
4000	4000	30	light gray Sandstone, white to light gray, fine, dolo-
4320	4380	10	mitie
4000	4940	10	Anhydrite, white, crystalline, with salt cavities; thin beds or fracture fillings
4330	4340	10	estition; thin beds or fracture fillings
			of salt indicated by drilling time and
			water smalvsis
4240	4357	17	Ambudadte, as above: Sandstone, 11gnt gray,
4340	-W/		fine dolomitic: Shale, light gray; and
			thin pade of salf implanted of entraine
			time and water analysis

PARADOX

(Note: Top Paradox Salt - 4357'. Drilling time and water analysis indicates solid salt at 4367'. The contact between the Hermosa and the Paradex salt section appears to be gradational, with thin beds of salt or possibly fracture fillings occurring from 4324 to 4357'.)

From	To	Thickne	Formation Formation
			FARADOX
4357	4372	15	Salt, indicated by water analysis and
4372	4382	70	willing time; drilled
2012	400E	10	Salt, indicated by drilling time (cored,
4362	4422	40	but no recovery) Halite, clear, course; stringers of
			anhydrite, dip 45-40
4422	4423	1	Anhydrite, white to light gray, fine.
4423	4425	2	Bottle Stringers line, gray sendatone, din 40
4360	W	25	Sandstone, gray, fine, with thin beds of anhydrite; dip 20-25
4425	4430	5	Sandstone, gray, fine; fracture fillings of
4400			pink and white dolomite; dip 80-25
4430	4459	29	candstone, gray, fine, dolomitic, shalv.
			a few thin beds of Shale, grave blebs of
			white shipurater dip 20-25-30: fracture
4459	4473	14	fillings of white and red halite
			Anhydrite, white to light gray, fine; vein- lets and thin broken beds of thale, gray,
			sandy, delemitic; dip 30
4473	4475	2	Shale, dark gray, sandy, dolomitic, brecciat-
4475	4478	3	ed; Tracture fillings pink and white halita
	44,0		Sandstone, dark gray, shaly, delomitic;
4478	4479	ı	fracture fillings of pink and white helite Anhydrite, white to light gray, fine; thin
			beds of Shale, gray, sandy; lower contact
4470	4400	_	61 p 40
4479	4488	8	Halite, clear, coarse; some stringers of
			gray halite and tan halite with dissemi- nated polyhalite
4488	4516	28	Halite, clear, coarse; some stringers of
		_	anhydrite; dip 30-45
45 16	4532	16	Halite, clear, coarse and massive: some
			stringers disseminated black shale and
4532	4550		anhydrite; dip 20
	4709	177	inclite, clear, coarse and massive; stringers
			of anhydrite; dip 25-45 (dip 60 and reversals in dip 4542' - 4552')
4709	4785	76	
	-,	,,,	Halite, medium and coarse, core clear to milky to smoky, stringers of finely
			disseminated black shale, petroliferous
			ocor along some black shale stringers.
4790.8	4000		dip 20-30
4785	4838	53	Halite, medium and coarse, core clear to
			milky to slightly smoky; a little finely
4838	4860	22	disseminated black shale, dip 20-25 Halite, medium, core smeky to gray; string-
			ers of finely disseminated black shale,
			petroliferous offer along stringers, dip
			16-90

From	To	Thickness	Formation
			Paradox (continued)
4960	4874	14	Shale, black, carbonaceous (very little recovered) Show of sas at 4867'
4874	4923	40	Halite, clear, coarse; stringers of dis- seminated black shale and anhydrite, petroliferous odor along black shale stringers; dip 15-20
4923	4981	58	Halite, clear, coarse; a few stringers of black shale and anhydrite; dip 25-30
4981	5 006	25	Halite, clear, coarse, much finely dis- seminated black shale; dip 20-25

CORRECTION: 5006 R.T.M. equals 5012 6" S.L.M.

TOTAL DEPTH: 5012'6" S.L.M.

POTASH COMPANY OF AMERICA - WRIGHT NO. 2

Location: SEC SEC SEC. 33, T. 21 S., R. 19 E 800 from the S., and 2310 from W. line of Sec. 33 Crescent Area, Grand County, Utah Elevation: 4871 (Sotary Table, Log of salt section cores compiled by Rennath A. Gorton

4557' - 4372'	15'0"	Salt, indicated by water analysis
		and drilling time; drilled, no cores taken
4372' - 4382' Cored: 10'0" Recovered: 0'0"	10 *0"	bult, indicated by drilling time
4382' - 4388' Cored: 6'0" hecovered: 0'4"	O 44n	Halite, clear, coarse, stringers anhydrite, core under size
4388' - 4398' Cored: 10'0" Recore red: 8'6"	816"	Halite, as above, dip 45-40-40-30
4398' - 4408' Cored: 10'0" Recovered: 1'5"	1'5"	Halite, as above, dip 48
4408' - 4418' Cored: 10'0" Recovered: 8'10"	8'10"	Halite, as above, dip 45-40-46
4418' - 4428' Cored: 10'0" Recovered: 5'4"	1'0"	Anhydrite, white and light gray, fine, compact; some stringers of Sandstobe, light gray, fine, dip 40
	1*9"	Sandstobe, gray, very fine, anhydritie, slightly limy, thin bands, 1/8" to 1/16" thick, of white anhydrite along badding, dip 20-25
	2174	Sandstone, gray, very fine, anhydritic, shaly, slightly limy, dip 20-25; fracture fillings pink and white delemite Rete: material lest is believed to be mainly salt in the upper part of the core.
4428' - 4438' Ocred: 10'0" Recovered: 9'4"	213# 014#	Sendstone, as above, dip 22 Shale, black, sandy, fracture fill- ings white and pink delemite

•	119"	Sandstone, gray, medium, very limy, fracture fillings white and pink dolo- mite and halite
	4'10"	
4438' - 4447' Cered: 9'0" Recovered: 2'9"	7191	Sandstone, as above, dip 20-25; fracture fillings pink and white dolomite and white and red halite
4447' 4454' Cored: 7'0" Recevered: 2'11"	1'1"	Sandstone, as above, dip 25 Sandstone, light gray, very fine, dolo- mitic; thin partings dark gray shale; blebs of white anhydrite drawn into "augen" giving poor "dalmation" effect; dip 30
4464 - 4459 Cored: 5'0" Recovered: 5'6"	5 16 4	Sandstone, light gray, very fine, dolo- mitie; and Shale, dark gray, sandy, dolomitic, thin bedded; dip 30; a few small "agugen" of white anhydrite; fracture fillings of white and red halite
4459' - 4469' Cored: 10'0" Recovered: 9'10"	9'10"	Anhydrite, white, finely crystalline, with deformation veinlets of dark gray shale; also thin and thick, broken beds of Shale, gray, sandy, very dolomitie; in places anhydrite is in rounded blebs producing a good "dalmation effect", dip 30-30
4469' - 4478' Cored: 9'0" Recevered: 7'6"	4*0# 1*5# 1*8"	Core as above Shale, dark gray, very sandy, delomitie, brecciated; fracture fillings of pink and white halite Sanistone, dark gray to dark brownish- gray, shaly, delomitie, highly fractured, fracture fillings of pink and white halite
4478' - 4488' Cored: 10'0" Necovered: 8'5"	0110* 718*	Ambydrite, white andlight gray, fine; thin beds of Shele, gray, samly, lower contact dip 40 Halite, clear, coarse; some thin stringers of gray ambydrite; halite is den color- ed close to some of the ambydrite stringers due to finely disseminated polyhalite
4488' - 4486' Cored: 10'0" Necovered: 8'8"	8171	Halite, clear, coares; some stringers ambyerite; dip 35-45-30-30-30

_ skie

4498' - 4506' Cered: 8'0" Recovered: 7'6"	716"	some stringers of mayorfact allo 30-25-25-30-50-c
4506' - 4516' Cored: 10'0" Recovered: 9'7"	917"	Halite, as above; dip 30-25-50
4516' - 4522' Cored: 6'0" Recem red: 6'0"	6°0"	Halite, clear, coarse and massive; some stringers disseminated black shale and anhydrite; dip 22-20
4522' - 4532' Cered: 10'0" Receve m d: 2'2"	9†2"	Halite, elear, coarse and massive; stringers of anhydrite; did black shale; dip 22-20
4532' - 4542' Cored: 10'0" Recovered: 10'10	10 ' 10 " "	Halite, clear, coarse and massive; stringers of anhydrite; dip 25-25-20
4648' - 4552' Cered: 10'0" Recevered: 9'10"	9*10*	Halite, as above; dip 45-45, reversals in dip in lower part
4562' - 4562' Cored: 10'0" Resovered: 10'6"	10'6"	Halite, as above; dip 60-60-25-45
4662' - 4672' Cored: 10'0" Recovered: 9'2"	912"	imlite, as above; dip 45-45-45-45
4879' - 4682' Cored: 10'0" Recovered: 8'2"	812"	Halite, as above; dip 36-25-25-45
4582' - 4602' Cered: 10'0" Necover d: 10'10		Halite, as above; dip 25-30-45-45
4899' - 4608' Cored: 10'0" Recovered: 9'7"	917"	Halite, as above; dip 40-30-35, re- wrsals in dip in lower part
4602' - 4612' Cored: 10'0" Recovered: 9'5"	915"	Halite, as above; dip 30-30-35
4612' - 4682' Cered: 10'0" Recovered: 9'2"	9,8,	Halite, as above; dip 30-25-25-30-45-50
4500' - 4500' Carrela 20'0"	10'8"	Malite, as above; dip 45-40-45-40-40

	4632' - 4642' Cored: 10'0" Mesovered: 9'10"	9'10"	Halite, as above; dip 35-35-35
	4642' - 4652' Cered: 10'0" Recevered: 10'1"	10'1"	Halite, as above; dip 30-30-35-40-40
	4652' - 4662' Cored: 10'0" Recovered: 9'10"	9'10"	Halite, as above; dip 30-30-35-30
: :	4662' - 4672' Cered: 10'0" Recovered: 9'0"	910"	Halite, as above; dip 35-35-30
÷ ÷	4672' - 4682' Cered: 10'0" Recovered: 10'4"	10,3"	Halite, as above; dip 35-35-35-35
	4682' - 4692' Cored: 10'0" Recovered: 10'2"	10 '2"	Halite, as above; dip 25-45-40-45-45-40
	4692' - 4702' Cored: 10'0" Recovered: 10'0"	10'0"	Halite, as above; dip 40-30-30
	4702' - 4709' Cored: 7'0" Recovered: 6'3"	6 ‡8#	Halite, as above; a few blebs of light tan halite, dip 30
•	4709' - 4719' Cored: 10'0" Recevered: 9'9"	017"	Halite, smoky, core smoky, medium grained, slickensided; stringers of black shale and anhydrite; inclusions of fine, gray sandstone; dip 20
	,	9114	Halite, elear, core milky white, medium grained, appears slickensided, some blobs searse, clear halite
	4719' - 4729' Cored: 10'0" Recovered: 8'9"	2'10"	Halite, as above, dip 20 Halite, as above, except core smoky due finely disseminated black shale and anhydrite
		316"	Halite, as above, except core is milky white, dip 80
	4729' - 4729' Corod: 10'0" Recevered: 10'3"	0'11"	Halite, as above, dip 80-80 Halite, clear, m dium, core emoky; marrow stringers of finely disseminat-
			ed black chale, petroliferous eder & slight oil stein along black chale stringers; a few blobs of char, coarse halite; dip 80

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4780' - 4740' Cered: 10'0" Recevered: 7'8	7*4 "	" Halite, clear, medium, with many coerce drystels, come slightly smoky; stringe of finely disseminated black shale, petroliferous oder along stringers; dip 30-80-86
6749' - 4789' Corod: 10'0" Rocovered: 9'4'	8'14'	
6780' - 4769' Gered: 10'0" Mesvered: 8'6"	814	Halite, as above; dip 30-25-20
4760' - 4778' Cored: 9'0" Recovered: 2'6"	8'0"	Halite, as above; lower 1'6" crushed and stained brown by drilling mud
4778' - 4788' Corod: 10'0" Rocovered: 9'6"	7*0*	Halite, medium and coarse, core smoky to gray in places; stringers and narrow bands of finely disseminated black shale, petroliferous eder along black shale stringers, 440 CG or along black
·	8'6"	shale stringers; dip 25-20-25-20 Halite, coarse, core clear to milky, Very little disseminated black shale
4788' - 4798' Cored: 10'0" Recovered: 2'2"	2.0.	Halite, medium and course, core clear to milky; swivel bearing brought up with core
6796' - 6706' Cored: 10'0" Recovered: 9'8"	9'2"	Halite, searce with some medium, core elear to mility to slightly smoky; a few narrow stringers of finely disseminated black shale, dip 80 to 25
4808' - 4818' Cored: 10'0" Recevered: 8'0"	B*0*	Helite, coarse with some medium, core clear; very little finely disseminated black shale; core fractured and stained brown in places by drilling mud; dip 25
4818' - 4888' Cored: 10'0" Recovered: 9'0"	8180	Halite, as above; dip 25
4006' 4696' Gored: 10'0" Moorem d: 6'10"	6194	Halite, as above; dip 25-20-25-20
4838' - 4848' Cored: 7'0" Recevered: 10'2"	6'7"	Halite, as above, dip 20 Halite, medium, core smoky to gray; stringers and narrow benus of finely disseminated black shale, petroliferous eder along stringers; dip 15

4846' - 4856' Cored: 10'0" Recevered: 0'0"		
4865' - 4965' Cored: 10'0" Sugure red: 5'0"	0.8.	iielite, as above, dip 20 Shale, black, carbonaceous, soft, hydrocarbon odor
4065' - 4067' Gered: 2'0" Recovered: 0'0"		(Probably Shale, as above) Show of gas 4847'
4867' - 4876' Cored: 9'0" Recevered: 1'6"	1.8.	Malite, clear, coarse, core chear to smaky; stringers of black shale; dip 80 (The unterial not recovered in the upper part of this core is believed to be shale. It drilled to hard to be salt, and the fact that it was washed out of the core barrel, indicates that it was shale.)
4876' - 4886' Ocred: 10'0" Recovered: 9'7"	918"	Halite, clear, coarse, core clear to light gray; stringers of disseminated black shale; petroliferous odor along black shale stringers; dip 18-20
4886' - 4896' Gered: 10'0" Recovered: 8'5"	8'5"	Halite, as above; dip 20-15-10-18
4006' - 4906' Cered: 10'0" Recevered: 8'3"	9.7.	Halite, elear, coarse, core clear to gray; inclusions and stringers of disseminated black shale and anhydr- ite; petroliferous odor along black shale stringers; dip 80-15-80
4006' - 4016' Octod: 10'6" Recevered: 8'7"	8187	Halite, as above; dip 15 to 20
4016' - 4006' Geret: 10'0'	0.4	Broccia: Sandstone, light gray, fine; and halite, clear, medium
Recovered: 4'F'	1'8"	And halite, clear, medium Halite, as above; dip 15 Halite, clear, scarse, sere clear to smoky; some massive, light tan erystals of halite; stringers of disseminated black shale and anhydr- ite; some fine, disseminated crystals of pink anhydrite
4080' - 4006' Cared: 10'0" Recovered: 5'10"	8'10"	Malito, clear, modium, core clear to mody; a few stringers of disseminated black shale and anhydrite; dip 50-25- 25

4986' - 4946' Corel: 10'0" Recovered: 7'5"	1.0"	Halite, as above Halite, clear, coarse, core clear, dip 25
4946' - 4956' Cored: 10'0" Recovered: 5'8"	2'0" 3'4"	Halite, as above Halite, clear, coarse; a few string- ers of disseminated black shale and anhydrite; dip 27
4956' - 4961' Cered: 6'0" Recovered: 1'8"	0.4.	Halite, as above, dip 50 Halite, clear, ocarse, core clear
4961' - 4971' Cered: 10'0" Recovered: 1'10"	0'8" 1'8"	Shale, gray, hard, delomitie; fracture fillings of pink delomite Malite, clear, coarse; a few stringers of disseminated black shale and anhydrite; dip 25
4871' - 4981' Gered: 10'0" Recovered: 10'2"	10.5"	Halite, clear, coarse; a few narrow, cloudy stringers of disseminated black shale and anhydrite; dip 20 to 25
4981' - 4091' Cered: 10'0" Recevered: 4'6"	412"	Halite, clear, coarse, core smoky to light gray; stringers of disseminated black shale and anhydrite; dip 80- 25; core broken by drilling
4991' - 6001' Gered: 10'0" Recovered: 7'11"	7'11"	Halite, as above; much disseminated black shale in lower 5°; dip 25
5001' - 5006' Gered: 5'0" Recovered: 8'8"	2'8"	Halite, clear, coarse, core gray due to much disseminated black shale and anhydrite; dip 20-25

CORMECTION: 8006' R.T.M. equals Sola's" S.L.M.

TOTAL DEPTH: SOLE'S" S.L.M.

Confidential

UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

GENERAL LAND OFFICE SALS LAND
SERIAL NUMBER 063655
LEASE OR PERMIT Pales EP1693

LESSEE'S MONTHLY REPORT OF OPERATIONS

The	follo	wing	is a	correc	t report of	/operati	ons and pro	duction (i	ncluding (drilling and producin
vells) f	or the	mon	th of		June /		., 19. 43			
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							Sigi	ned .X.	6.W	eau
Phone.	H	99						ent's title	Bijar:	intendent
Suc. and 14 of 14	Twr.	Range	WELL No.	DATE PROFESSION	BARRELS OF OR	L GRAVITY	Cu. Fr. or Gas (In thousands)	Gallons of Gasoline Recovered	BARRELS OF WATER (If none, so state)	REMARKS (If drilling, depth; if shut down, caudate and result of test for gasoline content of gas)
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Norm.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in distribute with the supervisor by the 6th of the supervisor.

7-12

6. This action of intention to drill is approved subject to Micros that drilling operations so authorized shall be in conformity terms and conditions of Generaltien Order No. M-66 of the War on Buard or any modification or assessment thereof that bereafter

THE STATE OF

Wright No. 2

7-25-43

Mack phoned twice.

Show 1837 - 1840

Cored from 40 - 50) Uniform fine grained cross-bedded 50 - 60) sandstone.

7-26-43

Mack phoned 10 a.m.

Still coring got a little better show but still only spotted and very little bleeding of the core. Show at 1896 - 1901, some saturation. Will probably set packer and test the 1890 - 1895 show.

T. D. 1903

GENERAL LAND OFFICE SAIT LAKE
SERIAL NUMBER 063655
LEASE OR PERMIT F.L. WILLEL

LESSEE'S MONTHLY REPORT OF OPERATIONS

2 m	s addi	ress	I	bomp	ion. Utak		Cor	mpany 🗜	otash Co	mpany of America
Phone	1	lone			iii nig		Sig	ned ent's title	Acting Drillin	Superintendent
SEC. AND	TWP.	RANGE	WELL No.	DATS PRODUCED	BARRELS OF OIL	GRAVITY	Cu. Fr. or Gas (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	REMARKS (If drilling, depth; if shut down, cause date and result of test for gasoline content of gas)
SW:	21s	. 196 2	2	Pros	ı IQ	FOR	MATIONS Thickne	LA	Date e	neountered
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SICME	Laye	jo		1830 1946 B		hole	116 226 98 7-31 TIONS GO		7-25-4 7-27-4 72	AUG 5 1943
S.C. MAN.	ORAN PAN SA	D'AC PRO	Ma Ma Ma Ma	oab oab otrad ovajo ovajo	1740 1762 1781 1840 1946		1758 1781 1789 1946 2062	INIC	18 fee 19 8 106 116	
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	Have	ijo		1967	*8*		1913	40°		

306 Federal Building Salt Lake City 1, Utah

August 14, 1943.

MEMORANDUM for Wm. H. Strang: SUBJECT: Testing Wright No. 2 Well, Salt Lake City 063655.

The attached copy of the lessee's monthly report of operations for July, the stratigraphic column of the four wells drilled by the Potash Company thus far on Lefax sheet, and an excerpt from the July monthly well status report, I believe will add to your "file" and will give you all the pertinent information you will need while conducting the test now in preparation on No. 2 Wright well.

On second thought, I believe you should consult with Mack and possibly Aurand regarding inspecting the cores for saturation within the 1700' to 1900' area. Also, make free use of the Potash Company's copy of the Schlumberger log in their office. I have the utmost confidence in your ability to see that this test is given every possibility to obtain the maximum oil recovery from these formations.

For your information I expect Hale Soyster through here the latter part of next week and am hoping we will find time to visit this well. It will be just about the time the gun perforations of the casing and possibly the swabbing will take place. It certainly would be an opportune time for Hale to get another eyeful of their "struggling" efforts to find oil at Crescent Junction.

Best regards.

C. A. Hauptman, District Engineer.

Encs.

cc. Casper

CAH: 14

GENERAL LAND OFFICE SOLL LAND.
SERIAL NUMBER 63666.
LEASE OR PERMIT F. L. WYLETT

LESSEE'S MONTHLY REPORT OF OPERATIONS

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SEC. AND 14 OF 14	Twr.	RANGE	WELL No.	Days Produced	BARRELS	OF OIL	GRAVITY	Cu. Fr. c (In thous	or Gas ands)	GALLONS OF GASOLINE RECOVERED	WATER (If	(If drilling, depth; date and result o	ARKS if shut down, or f test for gasoli of gas)
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Norm.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless etherwise directed by the supervisor.

Period Services 14, 188



GENERAL LAND OFFICE SOLT LAKE
SERIAL NUMBER OF PERMIT POLICY WATER

LESSEE'S MONTHLY REPORT OF OPERATIONS

Ag ent'	s addi	'e s s		T):	ompach,	Utah	Cor	npany l	Potent C	Spain of Americ
Phon e				No	ne			ent's tit	le Field	Superintendent
SEC. AND 14 OF 14	TWP.	RANGE	WELL No.	Days Producibe	BARRELS OF OIL	GRAVITY	Cu. Fr. or Gas (In thousands)	GALLONS O GASOLINI RECOVERS	E WATER (If	(If drilling, depth; if shut down, caus
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runs or sales of gasoline during the month. (Write "no" where applicable.)

Norm.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

Revised Jazuary 18, 1988

GENERAL LAND	OFFICE SAL	lake
SERIAL NUMBER	06366	
LEASE OR PERM	_{IT} F.L. 1	right

LESSEE'S MONTHLY REPORT OF OPERATIONS

State	U	lah	·	Co	ounty_	Graj	nd .	i	Field	Cre	scent	Are	N		
Th	e foll	owing	is a	correc	ct/repo	rt of	operat	tions and p	roduci	tion (i	ncludin	g drii	ling	and	produci
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SEC. AND			WELL	DATE			T	1						·	
14 OF 14	TWP.	RANGE	No.	Рвовисва	BARRELS	OF OIL	GRAVITY	(In thousands)	GA.	CONS OF SOLINE OVERED	BARRELS (WATER () none, so sta	ie late	drilling, de ate and re	EMAF	hut down, car
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(March 1943)

(SUBMIT IN TRIPLICATE)

UNITED STATES

DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

Land Office	Sa,	L\$	ia	ke
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Unit F.L. Wright#2...

S. GEOLOGICAL SURVEY

SIL & GAS CIV.

NOV 3 0 1943

SUNDRY NOTICES AND REPORTS ON WELLS RECE

NOTICE OF INTENTION TO DRILL	SUBSEQUENT REPORT OF WATER SHUT-OFF.
ICTICE OF INTENTION TO CHANGE PLANS	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING
IOTICE OF INTENTION TO TEST WATER SHUT-OFF	SUBSEQUENT REPORT OF ALTERING CASING
IOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL	SUBSEQUENT REPORT OF REDRILLING OR REPAIR
IOTICE OF INTENTION TO SHOOT OR ACIDIZE	
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etice of intention to test g	as showing X
(INDICATE ABOVE BY CHECK MAR	K NATURE OF REPORT, NOTICE, OR OTHER DATA)
	NOTORDET, SYTE
(% Sec. and Sec. No.) Crosocit (Field)	(Range) (Meridian) or Subdivision) (State or Territory)
e elevation of the derrick floor above sea le	evel is4891 ft.
DETA	ILS OF WORK
ate names of and expected depths to objective sands; show a	see, weights, and lengths of proposed casings; indicate mudding jobs, seen other important proposed work)
ing points, and all	other important proposed work)
home 4.40 A M on the mornin	g of above date a strong surge of g
ared on the discharge line.	This is a notice of our intention to all is 4867! Gas ansountered between Approved, subject to the
ared on the discharge line. 'drill stem test. Bottom of h and 4867'.	ele is 48671 Cas ansountered betwee Approved, subject to the final approval of District Kn
ared on the discharge line. 'drill stem test. Bottom of h and 4867'.	ele is 4867! Gas ansountered betwee
ared on the discharge line. 'drill stem test. Bottom of h and 4867'.	Approved, subject to the final approval of District Kn neer in 141; Lake?
ared on the discharge line. drill stem test. Bettem of he and 4857.	Approved, subject to the final approval of District Kn neer in 1411 Lake?
ared on the discharge line. 'drill stem test. Bottom of h	Approved, subject to the final approval of District Kn neer in 141; Lake?
ared on the discharge line. drill stem test. Bettem of he and 4867. ORIGINAL FORWARDED TO CASPER DEC 2-1943	Approved, subject to the final approval of District Kn neer in 1411 Lake?

Company petack Company of America	
. Salmen comband as wherean	
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Approved Persaher 1 1943	By Show & Laura
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NOTICE OF INTENTION TO DRILL (sheet 2)

Details of work.

It is proposed, all in accordance with good drilling practices and subject to and in compliance with good drilling practices and subject to and in compliance with good drilling experience and subject to and in compliance with good drilling equipment; grant subject to and in accordance with good drilling equipment; grant subject to and in accordance with good drilling equipment; grant subject to and in accordance with good drilling equipment; grant subject to and in accordance with good drilling practices and subject to and in accordance with good drilling practices and subject to and in compliance with good drilling practices and subject to and in compliance with good drilling practices and subject to and in compliance with good drilling practices and subject to and in compliance with good drilling practices and subject to and in compliance with good drilling practices and subject to and in compliance with good drilling expectations and grant subject to and grant subject to and grant subject to an accordance with good drilling expectations and grant subject to an accordance with good drilling expectations and grant subject to an accordance with grant subject to an accordance with grant subject to an accordance with grant subject to an accordance with grant subject to an accordance with grant subject to an accordance with grant subject to an accordance with grant subject to an accordance with grant subject to an accordance with grant subject to a subj

- 1. To install 13" 50 lb. new or second hand surface or conductor casing to about 130 feet and to cement same from top to bottom in the Mancos shale. If second-hand casing is used, it shall be in first-class condition.
- 2. To drill a 10" hole to a depth of about 2500 feet unless the top of salt section is encountered at a lessor depth. If it appears desireable in order to exclude underground water, establish circulation, or for other unexpected contingencies that may occur, such hele will be cased with 8 5/8" 28 lb. seamless casing to be properly cemented at the selected depths by the use of one hundred sacks or more of cement.
- 3. To drill shead a hole not smaller than 7 7/8" to a depth of 5000 feet unless at a lessor depth either a horison commercially productive of oil or gas shall be discovered or geological conditions shall be disclosed indicating the futility of further drilling; to core all potentially productive oil and gas somes encountered; to drill stem test showings of oil and/or gas, and to electric log the well as a final check on oil possibilities not disclosed in cutting the formations by rotary drilling.

Productive possibilities are contemplated in the Dakota, Morrison and Paradox formations. Depth at which these formations will be penetrated cannot be determined as faulting and movement have changed the depth to the Dakota in previous holes drilled in the district as much as 1500 feet.

- 4. To core more or less continuously in the Paradox formation to locate and determine the values of any potash and/or magnesium salts, using proper selutions to permit obtaining satisfactory cores. The core barrel used will cut a core approximately 2" in diameter.
- representative of any mudding, commuting, water shut off and eil or gas tests in order that a representative of the Survey may be present at the time of such test; also to metify such representatives of any change in the operations above proposed and to consider such changes with such representative looking toward approval of any changes made.

POTASH COMPANY OF AMERICA

May 29, 1943

Character Englisher

G.F. Coope, Precident

LESSEE'S MONTHLY REPORT OF OPERATIONS

Phone	ddress	77	empe.	on, Utah		, 19. 43	mpany P	sales Co	drilling and produci
33 SE SW 2	WP. RANG	No.	Риорисир	BARRELS OF OIL	GRAVITY	(T. Fr. of Gas (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	(If drilling, depth; if shut down, cam date and result of test for gasoline content of gas)
Herm	lox se		From 3979 4267 4367	Te 435 486 Depth FO 4867	EMAT:	TONS Thicknes 378 510 L-30-43 TONS CORE CORE CORE CORE CORE CORE CORE CORE	48 67	10- 3- 11-14-	Countered: 13 (Top 3695') 13 (Top 4357')
Norm.—Th				DEC 3 - 194	13	CASURA	U.S. GEO.C.	GICAL SURVE GAS DIV. 2 - 1948 AM CITY	Tank or miss of gas;

Norm.—Report on this form is required for each calendar month, regardies of the status of operations, and must be filed in Porms e-case.

Revised January 18, 1882

Per WHStrang over phone ang 23 no oil no gas. Shot Cower 2 - 20 = 40 ahoto bailer down. 1784 1/2 bailer off botton 1784 - 40 Water less + less mud fresh water 139 p.p. mil. of surface over night Water 400' Diel Stem test

achemie to come out.

Also how long do you that this detail should continue on how long will it continue. Original 30 day limit

Sec. 10. - Woods 1950' Wingate.

Chinle.

- Order of shooting and realing ----Shot: 1725-1730 - 20,- 34" Holes - 4-prifest. Pander by the # 180 - Time 22 PM1. 1730-1735'-- " " " 12 boiler Rune to 1784 - 12 gull thick Drg. Mus . 27 7 5 6 6 7 8 8 10 70 Time - 30 to 500 p. ... Many of the out of the control of the termination of the cost . Abid Rossed Sons 1784 to 1807 undercontrious boiling -· water tample of 520 km. Tosted 139 pour - the toupanilie the second control of the one of the scale brigger Survey come domment by soldingerges agent on Aug. 17.

(3) "

(A) . A

1740-17a.5' 4 1 7 8 8 8 6 6 1 1 10 15 7 70 10 70 10 70 10 1700 C Tealled home Trees to E PAC-Notes somple later of 1735 rested 139. 994. about sauce so mache ma maket -Tracked to let men your Till 8: am following any to organis i water head - well shed dow it 8: PAR.

- (vq-23-8: Am - Found mater had at mood whater sample #3 takens at 1700' showed inigreose of solids Jon 139 to 224 PP.M. Sampho 4 and # 5 1 Ken during all and Bon. trated 238 + 300 PPM CL respectively industries of mater material frontin displaced to make

生30户的1

Falue, continued Moraghout the night of her. 23-24-8:011 Water could not be lamered below 750 by continuous taling Tom siame the 23rd to siame the 24th Talle sample lake of 1700 it BIALL to to 1: 1572 PPM. C.L. and continued to remove .. In conclusion preasured and Encell it is fairly comparable to mes 1,2, and 3 taken time doubt stein often de ich pleine trit sin come hale 1729 - 1758 - and explains when the Taklunderger survey showed Fresh water water water de water of the pe tourd in died stew-test. The replaced the water nation to the sand to a print beyond the 16 food linewith of glocordend influence This was schundinger aguit was considered in the reading to they come when you the reading to they when if the drill steel of the thingh salinety of the drill steel salinety smell of your - remulting sulfur The last water tested presentled Eurpher watel opprod to PC. A to propaire that for Elementing shat hales preparating to continued drilling - since the shooter was not willing to slaud-ide perdeng test just completed house of fressing shooting elsewhere - However the R.C. a mies address that the

slight showing loved about middle

in cores stowing sheft and innegular oil splotches: 1890 - 1891/2 and 1896/2-1900/2, (51/2 fed) ared texted by que perforation when required by the U.S.G.S, and at such there of shooter is available; that will such live, and octoring in the light of dried the text above mentioned, Junther doubling could preced ofter communia - M perforationo meals from 1725 to 1745 - to nieure positive listuig Thorosino, if and when required

THole area 1725-1745 was cumuled - 4 2mg 35 Son were just through 80 - 1/2 holes - of 400 perup P. + collier pressure - Well standing commented Time 8: pm

8-24-43

Green River, Wah.

Dug-24,1943.

Sed Lote City office.

AUG 2 4 1943

As reported in memo of the of 19-43 - 8%"-28" roung was comented in this well at 2726, using not son: 335; computed on the hosis of 11" hole and theoretical covertime to Appe 1400-

of your letters and in any some considered on aug. 21 to reconsider Most, Entenda, and vovajo cores; driftstem tests based there on; (1) (lower Summerville on alper 1'sab) and all Appr middle Navajo

Howard, Mison and the enteriors of ofer an amonthe conferences: Messes: Reice, Gordon, Avrand, Mison and the enterior and investment of oil stores (\$1.5) four inverses taken from. 1746 - 1753 on Mosting a restained from 1762 - 1788 in lower 1766 and 7that the oil stores arreaded in corestained from 1762 - 1788 in lower 17625 and of that lower Summervine and where Mest to find thee gas and origin which, in all probabily - if of all would be found there-rother than in middle Moodar upper Entrada-where the drill-stem-test (1740'-1758') and cores team 1762'-1788 showed mater saturation of 2496, 5248, and 7632 PPM of CL with strong supper smell - Burthermore, it was our openions that inster existed throusand the Mood + Entrada Jands-since no borriers of the le or other landwations were found in cares, or drill cottings water to these sections whereby water would be prevented from parmediang The antire mass.

Therefore, decision was made to shoot and tost laner Somernile:1725 to 1735', and, upper Marbi-1735 - 1745', first, and Therester
be questioned by results as to passible tosts of laner
Mesores in the late -

- Wright 2 -

Those of 958-25 free, 2728 - Sept. 13-1943 -

Fault: Testimen 2728 and 2000 - Placed at 2730'
2730: West wife caul from 50-this Therefore of sand and
Chance in crior below fault (2000) make it wipossible
to make a definite correlation until a depth of increase
of 5000 test was scooled. analysis schoon to following:
12750 - Entry Karrenty, Formation of a fourt Copy,
35 feet below to 500 of tout member -

2730 - 2990 Cancella

2990 - 3295' - Withite

3295-3375' - Stell in Church

emperable to the depth reached in the Chiefe formation of 2730'

token it (petionenthus depths) - 30 to 40' helow the tops of the Unique to material to date no rel has found in a core was poorly ordered - contaminary much maduable hydrocanton that ships home of oil of solvento. No tree oil was found. No tree gas was forward although diller: claw to have small que while julling the

3375 Will now (9-13-43) Interned appx. 80 Febru top of Chinle which may be as much as 250 Thick. Santing: an upward Thrust of a facet Heat Fetween 1690' and 2750' caused The love of 1280'- to 1375' of Sectionents, This blanks being Thrust upward. The toll was drilled from Mancro

Addition of a possible of the few of formation, into the formation of the few

Foult: 2730; The facility Hold, Attories 1890 and 2730 was pushed upwards and own the sedements falout the fault at 2730.

to drilling through the fault the Kayenta was found at a point appropriately. 35 leter the top of that minution. Appx. 260 of Kayenta, 310 of Winguite and 80 of Chiefe were drilled to reach the same position or formation as had been seached before crossing the fourt at 2730. Total thickness of formation duplicated.

3575: - From the pout downward new and lower formations should be dried

Dale: Junday 9-19-43 - Drueling Chinle at 3395'-

interest from files please make two copies for my files

Mmy 10000

4-19-43

Unight # 2. Cot 12-1942 - Completes Frahing Jet.

Drille + one 312-3 + 3928 - Herwood 3908-3951

(15 Jut) - Two tour of 182 - 12 m 421 Jour 2098.

Fruit in Normaly too - wasple - Two in my truer -

that down the light with must be supported and some of the support of the sound of the support o 11ste - Wint +2 -That Fuenday gas trace the 15th whom is
Thomasa (3645): 2 389(-3979 at renows:
50%- Leilet spring 3d. Street 150- Shale - red and
thack contour cupus whole 20%- Shale - red and
sinder - That show introduct - not worthy of
test -Slight - true out it a stant un enthused - 200 Show in outch :- 3900 - 3910: aght grunt Junior St. True, and, 3910 - 3920 - thought grunt 15 d. ettree - dolumnitic cument. Type in cuturings t ditch pro not justify text.

Buth goo out of those in thomas a moduction former, shows in cours Taken

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Wright # 2. This down - Button 3979'-Whight # 2. Shut drum - waiting for dred , . Alut down de Shall de man out of soll is Wright + 2. Abert chown of duly popular The to she down wanten for will have the same of 2 - Shell direction in The of Wright # 2 - Abbt down for but for our se Wright # 2. Red down waiting dreet pipe -World # 2 . Ment docum, - 007. 27 1943 Wright a 2. About dames DET 20 1943 11) regot # 2. Abut down - 007 29 1943.

11 20 1 1 2 - 1 drill-World # 2 - Shut down for drive hope. Maint # = Regular rup to sixual exertines. Wright # 2 - Reaming up to reduce operations
Transferring brul from Linds #.1. Wright # 2 - Ereling at 3980 - (Harrison) Whight # 2 - Frelling Henrices, it 40/2-Tuice Wrieft # I_ Drilling Herman at 4041-Wright # I - Areling Hermosa 4070'-Wordstor 2 - Ardling Humor of 4101-

Would # In the Many **₩** 44 000 8 6 6 Many of horses to a long of the Harling and Alexander to stalt Wright # 2 & while you - Remarks fish Battom. Whight it I findless, Hermonia J 4241-Tun. 31/7 Waidt # 2 - Archier / Kurstusa at 4278-Tim 2 30 pm Wright # 2 - Prilling hermone at 3+14. Two 10.000.

Wright # 2 - Prilling Hermon at 4368 - Regarding does condition for principal site food condition.

Some indication of approaching close to Prindox (Sat) Found to a suff of 22 Told to payin comming And the second of the second o

Wright # 2 - Coming - Paradox - Solt, achyanetes +
akale 4447' - Young Kound -Wright # 2. Comma Paradox. 4464 - Hard Thale Might # 2 - Comes Paradox it 4470 - aubydrite and shale - (rong hand) - Time 8 30 acc -Wrealt # 2. Concey sait at 4522 - Ture 83 ane Reg. shut down it serived repairs - Note: Shut downs.
If this cancer are comparifle to ranious : The shut downs.
in the first day to back of planing whead & control of ,
and inexperienced labor -Coroner sail of 15 70 feet Time 8 30 aug. Consing salt at 4682 - Time 9: all-

Warriet & Jesting of and form and Care

Wright + 2. Took hold a fish with tap - Let held and droped fish appx. 250 feet. That new Lold Prelieg fish - Time: 4: Proc. Money of the first walk - Sand and the ment of the sand and the sand a World # 2. Abountieur feut dout pipe -Hole closed - Patteres 4709 (seet) -1, Word Vil 4 - 2 NAV 27 1943 Sufficient drill ripe was strengthened to reach tother (4709) and corning in sall was resumed at about 12 M. Today The string were to stope and further feeling its

Hole structure weder concert of and some structure of the
prepairation to making will-struce test of gas alsowing found at 4865-4868! Mr. faint relified 5 h. cty of these- of abrowing by telephone, thus nate - I will in truch with you by phone if and when it is considered necessary that you be present.

Will under mud circulation <10.7 - Vis. = 40 Sic > preparation <10.7 - Vis. = 40 Sic > preparation to med for new mend: <Mag. C/o+

Borrid + Zoogh > preparations to making drill-steer test of

gas found of 4865-4867.

No change ones previous report =

Will the way and conceptation DEC 3 - 1943 reacting for down to make a war will text. Working for Colox to A DEC 4 - 1943 must to make drill- retire that must and copyers reports -Macht # 2 - DEC 5 - 1943. No Chause gro att to some DEC 6 - 1943 The change over any Tell 12.5. 12. No change ver previous report - Waiting to testing equipment - Mud collings about the Lune - as fruit, reported -Ko change over former report.

- Wright # 2 - DEC 10 1943 pulled drill jup up uto 878 carried - Wright # 2 for use in quietien-hole and, displacement of Calcium closide mud, preparatory to making drill Aleu testthe state # 2 DEC 1 2 1943 Mixing Colox and Impranies using count to Fottom: 4867 - Fouri no coverage Vuled drell pipe up: 200-t - waiting for pelopping - Wright # 7 - DEC 13 1943 Displaced Colcium Cloride true must with seat sufficiently heigh not to disturb ex cause - Caching . Itale quet. Wating cellar welds presponding gate and other contrale decrees to make and she will

Run tester and Ret Meder et 4857 feetmechanically words of Pulling tester - Wright # 2 Re-run tister pleter. Sit packer at 49.47 feet - Med columns on pocker 2450. Tuberg on packer 2450. Tuberg on packer.

1, 425 # Appx. Tripid raloz at 2:1879.

Packer failed inchiatly! - No Eloco at 1. 1879.

Packer failed inchiatly! - No Eloco at 1. 1879.

Albert turnigh tuberg. Time - 3. 1879. Musers. Dyer, Thompson, Bailey at well IZ.Z:AM Southing through though though at Apps. 4800the showing increasing - Time 5- ming-Mr. Hauptmake it p the Dyle at proposed

at 129 Am. the fluid had have hevated driver to 1700' aprx. Gas had have acting the sund for sund he have heart of sund for sund here of sund for any answer of the lune, 120 km, while pulling sund - gas water sweet lefter boot hater there is was faving pulled — their sund - fefore driven cruell take up the shall-sundent the line appx. 1000 feet above sweet - Palled tubus to sund said struig-up to like for sweet and soon Appx of sevat like -

See previous report - Trebes at lest reval and appx 1100 but a said like - 10 runs tubus. as 4: m. I for various rensons mr. Hace plucy will weder stand - since he woo on the derick feror - no swating hap, here done Varings reported mechanias aiffoculties with its traint - self orther multies. should to privery - gelsey rusting - Very entile gay tratained through with Theus !

with lat appx 1860'
Mr. Hauptinen intuised much of preceding swafning - a relief proposition to This is the most difficult situation - the sulary I am glad he is here to witness offer metters haider swating and teching, There is presely sickness here - Law not Thick a should get our letter tourness to the aug are - with the , so others puch hit " but see the test through

Land Office Salt Labo Lane No. 063655

33		OF THE INTERIOR	Unit Fo. L. WP1 ght
		CAL SURVEY	
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SUNDRY	NOTICES AN	DEC 23 1943 D REPORTS OF	1 WELLS FC 21 1943
NOTICE OF INTENTION TO DRILL		SUBSEQUENT REPORT OF WATER	SHIT OFF
NOTICE OF INTENTION TO CHANGE	PLANS	SUBSEQUENT REPORT OF SHOOT	CARE SILL WAR
NOTICE OF INTENTION TO TEST WAT		SUBSEQUENT REPORT OF ALTER	
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(INDICAT	TE ABOVE BY CHECK MARK NAT	URE OF REPORT, NOTICE, OR OTHER	
		De Gemet.	1943
Well No. 2 is loc	eated 550 ft. from	S line and 2510 ft. fr	om W line of sec. 55
SE SE SW, Sec. 33,	T. 21 S., R	.19E Salt Lak	(w ,
Crescent Area	Grand Co.	ange) (Meridian) T	Itah
(Field)	(County or Br		(State or Territory)
The elevation of the derrick	DETAILS	OF WORK	lmen i lackten to must diam take annone
In accordance approved Dec. 1, 19 with Colox weight a could not get seat. Pulled packer 4800', and commence level to 900' at 9 at 12 midnight. Sy	with notice of 45, tubing was aterial. Attended to Reven new particles and ran tubing on A.M.; to 1600° ab line parted at 5:50 P.M. an increase of turns according and only slight	of intention to a run, and drillis impted to set passeles to 4846', a morning tour Dec at 5 P.M., and at 18:50, Dec. 19. Fluit to Dr. Bailey, at 19 muddy. At 8	ake drill stem test, ing fluid displaced over at 4855', but ut failed to get to approximately 17. Pulled fluid approximately 1800' 18. Fished out swall level was found at shing operations. U.S.G.S., were
Company Potash G			
Address Thompson, I	/tab	By he	faul
	ran anasanan kasanan kasan	Title Super	rintendent

Potash Co. of America - Wright #2 Sec. 35, T.218., R198, Grand Co., Utah Notice of intention to change plans, and Mubseguent report of testing. December 20, 1945

from 2338', fluid level was at 1938'. At 10:35 P.M. returning fluid brought up fragments of red sandstone, anhydrite, and gray shale. At 11:30 P.M. fluid level was at approximately 2000' feet. Swabbing was continued until 12 noon, Dec. 20, without lewering the fluid level below 2000 feet.

In view of the fact that water is entering the hole so rapidly that with continuous swabbing the fluid level has not been lowered in more than 12 hours, it is deemed imposible to secure a positive test of the gas showing by this method. By continuoung this method, a sluffing condition of the hole will

unquestionably develop.

Therefore, it is our plan to remove tubing from the hole, resemmence drilling operations, and continue ecreing to the contract depth of 5000 feet, being governed by findings as they progressively develop. When contract depth is reached, remove drill pipe, and run easing to appreximately \$8.55', and cement same with Halliburton Oil Well Comenting unit. Let cement set 72 hours, and drill out to below any eil and/er gas showing. Then swab thru tubing for positive test on present or any future developed gas and/er oil showing, being governed at all times by the findings as they develop.

Approved DEC 2 3 1943

Costanplinary

COPPE LANGUAGE

Thompson, Utah December 31, 1943

Mr. C. A. Hauptman, Dist. E.gr. U. S. Geological Durve, 306 Federal Bullding Salt Lake City, Utah

Dear Mr. Hauptman:

Re: F. L. Wright No. 2 Lease No. 063655, Salt Lake

While running 6-5/8" casing to 4540 on Wright No.2 over a period of 39 hours, gas from formations below had out the mud badly until there was necessity of conditioning the mud in order to assure the possibility of pumping cement down. Delay in running casing can be attribited to various equipment failures as well as labor difficulties. We started to condition the mud about 12:30 A.M. on the morning of Dec. 30, and it was not until 9:30 A.M. that the circulating fluid was considered safe to use as a medium with which to pump cement down. At this time gas action was quieted, and the mud was fairly uniform and free from gas entrainment. At this time, after, in the meantime, carefully checking the core analysis with K. A. Gorton, geologist for Folush Company of America, we found this to be the condition of the formations in the Paradox salt section:

Halite, clear, coarse, with stringers of disseminated anhydrite 4357' to 4422' anhydrite; Samustone, ray, fine, dolomitic, shaly 4422' to 4480' Malite, clear, coarse, massive 4480' to 4710' Halite, clear and gray due to finely disseminated stringers of clash shale 4710' to 4865'

Finding this to be the character of the formations, it was considered advisable to cenent where we were, with the bottom of the easing at a point which would reasonably assure us of a positive test of the section below giving us the evidence of a gas show.

Therefore, we at this time introduced 200 sacks of Special Oil Well Cement with the casing bottemed at 4540', and completed pumping down the cement plug at 10:58 A.M. with a pressure on Halliburton gague of 180 lb. minimum and 320 lb. maximum, from which evidence we would judge the cement to have reached a point appreciately 500 feet above the sheet at 180 lb.

May this letter serve as an appendage to our notice of intention to change plans, filed Dec. 20, 1943.

Yours very truly,

T. S. Laird, Euperintendent POTASH COMPANY OF AMERICA



UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

GENERAL LAND OFF C 5655 SERIAL NUMBER T. L. Wright LEASE OR PERMIT ...

LESSEE'S MONTHLY REPORT OF OPERATIONS

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ate The	A 77		is a	40**40	report of	pe rati c	ons and pro	duction (i	ncluding d	trilling and	producing
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sent's	addre	288				1	Con	npany	The S	la V	
6 ****							Sig	ned	Super	intenden	t
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runs or sales of gasoline during the month. (Write "no" where applicable.) Norm.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

Form 9-839 Revised January 18, 1988

6-6368 U. S. GOVERNMENT PRINTING OFFICE

UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

GENERAL LAND OFFICE SALT LAKE
SERIAL NUMBER 063655
LEASE OR PERMIT F. L. WY1ght

LESSEE'S MONTHLY REPORT OF OPERATIONS

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Norm.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

Berined Jamestry 18, 1986



UNITED STATES

DEPARTMENT OF THE INTERIOR P. O. Box CO

GEOLOGICAL SURVEY

Taft, California

February 18, 1944

MEMORANDUM for C. H. Hauptman, Salt Lake City, Utah:

Subject:

Drilling and Testing

F. L. Wright, Well No. 2

Location:

NW, NW, Sec. 10, T. 22 S., R. 19 E.,

S.L.M.,

Salt Lake City - 063655 Crescent Junction Area,

Grand County, Utah

Operator: Contractor: Potash Company of America

Mack Drilling Company

Supervision of this operation given under assignment by H. B. Soyster to William H. Strang--Effective July 31, 1943.

I report as follows:

DRILLING BRIEF

- (1) This well was drilled under a Sundry Notice approved May 29, 1943, using Rotary Equipment.
- (2) Drilling commenced in Mancos Shale June 22, 1943. Drilling water was trucked from Thompson, Utah, a distance of eight miles.
- (3) One hundred twenty-one feet (121') of 13" O.D. 50# surface casing was comented using 80 sax, by Halliburton.
- (4) Thereafter, open hole was drilled from 121 feet to 2730 feet, using 9-7/8"
 Hughes Rock Bits, except core holes reamed from 1729-1758' in lower Summerville and upper Moab: 1762-1788', in lower Moab and upper Entrada; and 18402062' in Navajo and upper Kayenta, 277 feet.
- (5) At this point (2730'), and, at various hole areas between 2730' and base of Mancos Shale and Fault at 1690', abnormal loss of drilling fluid to formation occured.
- (6) To arrest this reported loss and for other reasons known to the contractor a string of 8-5/8" O.D. 28# welded pipe was run, and cemented at 2728' by Halliburton using 365 sax.
- (7) This casing, having successfully stood all necessary tests, accomplished the purpose of stopping migratory loss of drilling fluid; shut off all waters above 2728' and, it is thought, obtained a measure of bit-cone conservation by and through reduction of hole diameter from 9-7/8" to 7-7/8".
- (8) After testing various formations back of 8-5/8" casing through gun perforations and "Squeezing-off" same with cement retainer run on drill pipe, as hereinafter explained, open 7-7/8" hole was drilled through 8-5/8" casing from 2730' to to of Paradox formation (Salt Section) at 4357'.
 - (9) Thereafter, the Paradox (Salt Section) was cored from 4372' to 5012' (640) using Reed Wire Line Eore Barrel.

- (10) As hereinafter briefed under the headings of Oil and or/ Gas Showings and, Testing, the only gas showing justifying a test was found while coreing the Paradox formation at 48671. This showing when found was under moderately high pressure and low volume, but temporarily sufficiently active in the mud-stream to justify changing mud as a matter of safety, and to "Quietthe-hole" prior to attempting a drill stem test. (11) Two attempts were made to take a drill stem test of this gas showing. Both attempts failed: Test #1. Date - December 15, 1943; packer set at 4855. Cause of failure: Valve would not open. Date - December 16, 1943; packer set at 4846. Cause of failure: Packer would not hold. (See Section - Drill Stem Tests) (12) Efforts having failed to obtain a positive drill stem test of gas show at 4867', 2-1/2" I.D. tubing was run to 4800' and the fluid lowered to approximately 2000 feet by swabing through tubing. During this operation (1) no oil was found, and (2) little, if any, gas was found. (See Section -Swabing Tests). (13) Continued swabing indicated water entering the hole at some point or points
- (13) Continued swabing indicated water entering the hole at some point or points above 200' -- in all probability (1) from shot holes previously placed in 8-5/8" casing from 1725 to 1740', in lower Sumerville and upper Moab formations. These shot-holes were "scabbed-off" when cement plug and retainer were cleaned out during which operation there was strong indications of a steel bullet or bullets projecting from the inner walls of the casing; in which event, the hole or holes made by removal would permit water to enter; and/or (2) since the 8-5/8" casing was landed at 2728', two feet above a fault at 2730' in Chinle Sand Stone, it is quite possible that water might be entering the hole from Chinle or any formation above this fault. No Definite shale markers exist to prevent migration of water around set sement in annulus or through fault into casing.
- (14) Because no commercially recoverable oil or gas was found by or through careful atudy of drill cuttings taken at 5' 10' intervals, close ditch observation, drill stem tests, gun perforation, or otherwise, there appeared to be no justification or need for further comenting of the 8-5/8" casing when considered in the light of hole conditions then existent and the need of exeluding all such conditions by the use of 6-5/8" casing cemented at greater depth in the Paradox above gas showing at 4867'.
- (15) Accordingly, 4540° of 6-5/8" 0.D. 26# casing was comented by Halliburton using 120 sax.
- (16) After plug was drilled and satisfactory pressure tests made on the 6-5/8" pipe, 2-1/2" I.D. tubing was run to approximately 4900" for cleaning out purposes.
- (17) Thereafter swabing was resumed through tubing and fluid lowered to 4750°

- (18) To further expose gas show at 4867', tubing was pulled, and the hole bailed through 6-5/8" casing to remove bridges.
- (19) During this operation the bailer was pulled into the Sand-Shieve and destroyed. (A representative stunt common to this and other operations by the contractors) A second bailer was strung up and cleaning by bailing was resumed.
- (20) Before this operation succeeded in cleaning the hole to a point below gas showing at 4867, the rotten sand-line parted while pulling, dropping bailer and about 600 feet of line in the hole.
- (21) Subsequent fishing with rope-spear took hold of line and while pulling, lost line and bailer—the same old rotten line having again broken while pulling fish, dropping approximately 4000' of sand line, fishing string, and fish.
- (22) The above fishing jobs occured on January 9th and 10th, 1944.
- (23) On January 11, 1944, becasue of the heavy financial burden resulting from avoidable lost time by the contractor on this and other wells in this field, Mr. Thomas S. Laird, Superintendent, for the operator, Potash Company of America, placed the contractor, Mack Drilling Company, on notice with the following shut down order:

"This is an order for you to discontinue operations without further expense to the Potash Company of America until such time as supervising and drilling personnel can be obtained who are acceptable to the Potash Company of America, and furthermore until such time as your equipment can be conditioned and tooled in a manner acceptable to the Potash Company of America.

This order effective as of 4 P.M., January 11, 1944."

(See section under Lost Time.)

- (24) On January 11, 1944, under this order, fishing and further testing operations were temporarily discontinued until such time as new and satisfactory arrangments are concluded with respect to contractual requirements, contractual supervision, and equipment capable of doing any and all things expeditiously relative to drilling, coring, and testing properties held by the operator in this district.
- (25) On January 22, 1944, the contract between the operator and Mack Drilling Company was cancelled by the operator for "Failure to perform," and the contractor was given a stipulated time in which to remove his buildings and equipment from the operator's premises.
- (26) As of January 51, 1944 in compliance with this stipulation, L. H. Mack was moving his share of equipment from the leasehold.

- (27) By the way of explanation of "his share" as mentioned in Par. 26, the drilling firm known as "Mack Drilling Company," formerly under contract with the Potash Company of America, was a co-partnership consisting of L. H. Mack, E. T. Barker, and Jo. E. Fletcher. This partnership was dissolved by mutual consent on or about January 21, 1944. It was L. H. Mack's share of the partnership property that was in process of being moved from the lease-hold on January 31, 1944 in compliance with the shut-down order and stipulation herein before mentioned. It is reported that "disregard of the partnerships contractual obligations to the operator and failure to cooperate with operators' agents was the direct cause of partnership dissolution and the cancelling of contract by operator together with stipulation to remove "his share" of the equipment from the premises.
- (28) As of mid-January, 1944, the Potash Company of America had carried forward negotations to a point where a new contract had been drafted for the completion of this well. This contract with Barker and Fletcher was signed January 31, 1944. The hole was entered and fishing operations resumed on February 13, 1944.

SHUT DOWN PERIODS

- (29) Aside from the shut-down here-in-above mentioned under "shut-down order" (Par. 25), there was only one extended shut-down: Effective midnight, October 14, 1943 to November 1, 1943, inclusive, the hole was left bottomed in Hermosa Formation at 5979. This shut-down was ordered by L. H. Mack of the Mack Drilling Company without mentioning the subject or "necessity" to the Potash Company of America. Operations were resumed on November 1, 1943 against the desire of the Potash Company of America. Other operations in another well located on an adjoining leasehold being at this time of more importance than resumption of drilling in Wright No. 2.
- (39) This shut-down was probably justified on the grounds of dangerously worn drill pipe which failed twelve times in this well as of October 14, 1945, resulting in an average loss of time of 224 hours. To stop further time loss, the writer obtained a "special factory directive" through official channels, for 6000 feet of 4-1/2" External Upset Internal Flush drill pipe with tool joints, for contractor's account, to use in wells operated by the Potash Company of America in the Crescent Junction Area. Steps are being taken by the new contractors to get delivery of this drill pipe for their use in the Crescent Junction Area. Added specifications of this pipe is to equip same with "Super Shrink Grip" tool joints.

_ 4 _

MONTH WATER

FORMATIONS PENETRATED

(31)	Formation	From	To	Thickness
1.	Mancos shale	61	16901	16841
	(a) Sandy member	1190	1225	35
	Fault - 1690'			
	Summerville Sh. & Ss.	1690	1736	46
	Moab sandstone	1736	1781	45
	Entrada sandstone	1781	1818	37
	Carmel shale	1818	1830	12
	Navajo sandstone	1830	2045	215
	Kayenta sandstone	2045	2340	295
	Wingate sandstone	2340	2660	320
9.	Chinle sandstone & shale	2660	2730	70
	Fault - 2730			
	Kayenta sandstone	2730	2990	260
11.	Wingate sandstone	2990	3295	305
	Chinle sandstone & shale	3295	3 395	100
13.	Moenkopi sandstone & shale Unconformity - 3695	3395	3695	300
14.	Hermosa Ss., Sh., Ls.	3695	4357	682
15.	Paradox salt section	4357	5012	65 5
	Total depth - 5012'6" SIM		0025	000
(Po	tash Company of America's records	1)		
	FORMAT	CIONS CORED		
	Moab sandstone	1740	1758	18
	Moab & Entrada sandstone	1762	1789	27
. 3.	Mavajo & Kayenta sandstone	1840	2062	122
4.	Wingate sandstone (taken for			
	correlation)	5014	5024	10
5.	Paradox salt section	4372	5012	640
	Total cored			817

SHOWS OF OIL AND/OR GAS

(33)

(a) Moab sandstone: - 1737' to 1755'.

Note: This show consisted of a few bands of oil stain, spots, and splotches. Schlumberger Survey and drill stem tests were made.

(b) Navaje sandstone: 1857' to 1900-1/2'.

Note: This showing consisted of streaky sones and irregular spots of oil stain along cross bedding. Strongest stains are 1890' to 1891-1/2' and 1896-1/2' to 1900-1/2'. Schlumberger Survey and drill stem test were made.

- (e) Wingate sandstone: 3014' to 3024'.

 Note: This show was found in a core taken to identify Wingate formation and consisted of extremely slight oil stain; spots, and splotches of dead hydrocarbon that would not cut in tetrochloride. Schlumberger survey was made.
- (d) Paradox formation: 4867' Note: Show of gas from shale or crevice in Salt Section. Tested by
 swabing and bailing. (See results of tests under following
 sections).

TESTS FOR OIL AND/OR GAS

(34) I Schlumberger Surveys

"(a) First Survey:

Date: August 11, 1945

Depths tested: 122' - 2722'

Formations tested: Mancos, Summerville, Moab, Entrada, Carmel,
Navajo, Kayenta, Wingate, Chinle.

Results of test:

The Moab sandstone was shown to have high porosity and moderately high resistivity. The high resistivity might be due either to fresh water or to oil content of the sand. A subsequent bailing test showed that the sand contained fresh water absorbed during drilling.

The electrical log showed no other possibilities of oil or gas. The upper part of the Navajo sandstone, in which the cores showed oil stains and dead hydrocarbons from 1837' - 1900-1/2' was indicated by the electrical log to have low porosity and low resistivity, and hence to have no oil or gas possibilities. This confirmed the previous drill stem test of this area.

(b) Second Survey:

Date: Sept. 15, 1943
Depths tested: 2728' - 3380'
Formations tested: Kayenta, Wingate, Chinle,
Results of test:

No possibilities of oil and gas are indicated.

The area between 3014' and 3024' in the Wingate sandstone,
which showed some dead hydrocarbon in a core taken for correlation,
was indicated by the electrical log to have low resistivity and
moderately low porosity, and therefore no oil or gas potentialities."

(55) II Drill Stem Tests

MANAGES MESSELVER .

- Date of Test: July 20, 1943

 Nature of test: Packer seated at 1729', with bottom of hole at 1758', length of open hole 28.11", size of hole 9-7/8"; valve open and fluid held off of formation for 41 minutes.

 Results of test: Saline and sulphurous water rose 510' in drill pipe. No oil or gas showing.
- (b). Navajo sandstone (for show 1837' 1900-1/2'):

 Date of test: July 26, 1943

 Nature of test: Packer seated at 1887'8" with 25'4" of anchor, bottom of hole 1913', length of open hole 25'4", size of hole 8-5/8", valve open and fluid held off of formation for 1 hour 25 minutes.

 Results of test: Recovered 40' of fluid, which appeared to be mainly drilling fluid. No oil or gas showing.
- (c). Paradox salt section (for gas show at 4867'):

 Date of test: Dec. 15, 1943

 Nature of test: Packer seated at 4855'6" with 11-1/2' of anchor, bottom of hole 4867', Apparently obtained a good seat with packer, but could not open valve to allow gas to flow into tubing.

 Result of test: Had to pull packer without obtaining a test.
- (d). Paradox salt section (to test gas show at 4867'):

 Date of test: Dec. 16, 1943

 Nature of test: Attempted to seat packer at 4846' with 21'

 of anchor, hole bottomed at 4867'

 Result of test: Packer failed to seat, and had to be pulled without obtaining a test.
- (36) III Bailing Tests Gum Perforation

(a) Date: Aug. 22 - 24 inclusive, 1943
Formation tested: Meab sandstone
Depths tested: 1725' - 1745'
Nature of test:

Cemented 8-5/8" casing at 2728' with 365 sacks of cement by Halliburton Oil Well Cementing Co., with hele bottomed at 2728'. Allowed sement to set 72 hours. Casing perforated from 1725' to 1745' with 80 3/4" bullets as fellows: (1) 20 bullets from 1725' - 1730', (2) 20 from 1730' - 1735', (3) 20 from 1735' - 1740', (4) 20 from 1740' - 1745'. Hole bailed after each group of perforations, and for 30 hours after last perforations.

(b) Results of test:

(1) No oil, gas or water after casing perforated from 1725' - 1730'. (2) Some water, and no gas after perforations from 1730' - 1755'. (3) Water came in rapidly after casing was perforated from 1735' - 1740', no oil or gas. (4) Water rose to 1077' and finally to 600' from surface after perforations from 1740' - 1745'. Casing was bailed for 30 hours, and no gas. Continued bailing exhausted drilling fluid and brought back water native to this formation.

(37) IV Swabing Tests - Gas Show at 4867'

- (a) Date: Dec. 17-20-inclusive, 1943
 Formations tested: Kayenta, Wingate, Chinle, Moenkopi, Hermosa, and Paradox.
 Depths tested: 2728' 4867'
- (b) Nature of test: After failing to get a packer seat at 4855' for a drill stem test, tubing was run without a packer to 4800', 67' above the bottom of the hole. The fluid level was swabbed to approximately 2000', below which it could not be lowered.
- (c) Results of test: No oil was noted. Little if any increase in the amount of gas from 4867' could be observed. The fact that the fluid level could not be lowered below 2000', is believed to indicate that the Kayenta and Wingate sandstones are water bearing.

(38) V Swabing and Bailing Tests

(a) Date: Dec. 27 - Jan 10 inclusive, 1945-44
Depths tested: 4540' - 5012'.
Formation tested: Paradox salt section

(b) Nature of test: After coming to 5012', 6-5/8" casing was commented at 4540' with 120 sacks of comment by Halliburton Oil Well Commenting Co. Casing was bailed dry and found not to be leaking.

(c) Tubing was run to about 4900' and circulated to clear hole of any obstructions. Tubing was then raised to 4851', and the fluid level lowered by swabbing to 3700' when a bridge of coment fragments was found in the tubing at 3719'. Tubing was raised to 4750', and the bridge broken by pumping a small smount of drilling fluid into the tubing. The new fluid level was found at \$300'. Swabbing was continued, and the fluid level lowered to at least 4048'. With the hole voided to this depth, the flow of gas through 2" tubing was not of sufficient volume to measure with a Pitet tube in tests made by C. A. Hauptman and others put

(d) Tubing was extracted from the hole, and the well shut in with the master gate. After 10 hours, a casing head pressure of 21 lbs. had formed, and this was entirely dissipated in 2 or 5 minutes after the easing was opened through a 2 valve.

(e) The fluid level was lowered by bailing to 4625', at which depth a bridge was encountered. Then the bridge was broken, thick and and coment fragments were recovered. Four trips were made with the bailer to 4875'. Then a bridge fermed at about

(•) Continued

4660°. When this bridge was broken, one was found at about 46001. When this bridge was cleared, the bailer was run to 4750° without obstruction. Then a bridge formed at about 46301.

(f) When coming out of the hole, the bailer was pulled into the erown block and destoryed. Another bailer was run and encountered a bridge within the 6-5/8 casing about 500 or 400 feet above the show. Spudded on this bridge with 5" bailer. On the way out of the hole the sand line parted; bailer and about 600' of line was lost in casing. Caught shold of line with center spear, but on the way out of the hole, the line parted, and center spear and about 4000' of line was lost in the hole.

(39) Casing Used

1. 13" 0.D., 50 lb., 10 thread, used surface casing set at 121' and cemented with 80 sacks of cement by Halliburton 0il Well Cementing company.

2. 8-5/8" O.D., A.P.I., 28 lb., used, welded casing set at 2728' and cemented with 365 sacks of cement by Halliburton Oil Well

Cementing Company.

6-5/8" O.D., 26 lb., 10 thread, used, sorew casing set at 4540' and cemented with 120 sacks of cement by Halliburton Oil Well Cementing Company.

(40) Recapitulation - Shut Down Order

On January 11, 1944, testing was temporairly discontinued when the Mack Drilling Company was ordered to shut down in order to obtain competent supervising and drilling personnel, and to have equipment adequately tooled and conditioned. On January 22, 1944, the contract with Mack Drilling Company was cancelled for failure to perform.

PARTIAL CAUSE OF SHUT-DOWN ORDER BY POTASH COMPANY OF AMERICA

(41) (a) It is conservatively estimated that the contractor, while drilling and testing Woods Well No. 1, Lease Salt Lake 065655, lost time that could have been avoided, in the amount of 35% approximately.

The following break-downs of lost time taken from Contractor's Daily tour Reports and Potash Company of America's records for this well (Wright No. 2) indicate avoidable lost time of 54.12 days = 1298.88 Hours = 29.10% of the total elapsed time of 186 days or 4464 hours, plus 10% or 39.10% - 5% = 34.10%. (See (k) and (1) under Break-downs.)

BREAK-DOWNS

- (c) Avoidable lost time chargeable to Mack Drilling Company
 - 1. Because of machinery failures: 37.87 days = 908.88 hrs. = 20.36%
 2. Because of fishing D.P., cones, etc.: 16.25 " = 390.00 " = 8.74%
 Total 1298.88 " = 29.10%
- (d) Unavoidable lost time chargeable to Potash Company of America Operator
 - 1. Waiting for cement to set:
 2. Testing time, Halliburton
 and Schlumberger, etc:
 32.80 " = 787.20 " = 17.63%

 3. Rigging up and running
 easing:
 Total

 2.45 " = 58.80 " = 1.32%

 2.1.60%
- (e) Total elapsed time Spud date- June 22, 1943 to December 24, 1943:

186 days = 4464 hours

- (f) Charge Mack Drilling Company
 (g) Charge Potash Company of America
 Total lost time

 54.12 days = 1298.88 hrs. = 29.10%

 40.18 " = 964.32 " = 21.60%

 94.30 " = 2263.20 " = 50.70%
- (h) Effective running time

 (i) Avoidable lost time

 (j) Unavoidable lost time

 Total elapsed days

 9.70 days = 2200.80 hrs. = 49.30%

 54.12 " = 1298.88 " = 29.10%

 40.18 " = 964.32 " = 21.60%

 186.00 " = 4464.00 " = 100.00%
- (k) Because of the fact that there was a conservatively estimated 10% avoidable lost time known to have taken place, but was not included in the daily tour reports, then the actual avoidable lost time is 29.10% + 10% = 39.10%.
- (1) Allowing the contractor a credit of 5% for lost time which he could ill afford to loose and which is prohibitive in normal drilling operations, then the loss sustained is 54.10%. Measured in terms of man power, time, strategic materials, and money during times of war and national stress, the reader is invited to consider the action taken by Potash Company of America to cure this fault. Any other action would be in the nature of an omission and would tend to place Potash Company of America in the position of being a party to this loss.
- (42) On February 29, 1944, the new contractors were successful in removing a bailer, fishing string, and wire line left in the hole by the former contractor. The well is now in condition to complete cleaning-out and final testing of the gas show herein above mentioned.

Belleville Just at 14

SUMMARY

(43) I Result of tests.

- (a) No oil and no gas were found that could be measured with Pitot tube, or of commercial value, in any formation above the Paradox Formation (Salt Section).
- (b) No oil and no gas of commercial value were found in the Paradox (Salt Section).
- (c) No magnesium or potash minerals were found that could be mined or leached profitably. None were found.
- (d) The well may be classified as a dry hole to 5012 feet.

(44) II Conclusion

- (a) This well has been thoroughly tested for oil and/or gas to 4875'.
- (b) It has been thoroughly tested for magnesium and potash minerals.
- (c) The gas show in Paradox Formation at 4867' should be given final test after recovering the bailer, sand-line, and fishing string.
- (d) This showing in all probability will prove to be of no practical value. (Fish was recovered 2/24/44).

(45) III P&A Requirements

(a) After final testing of this gas show, the well be plugged and abandoned by (1) filling the Paradox with cement to a point a few feet into the Chinle Formation, (2) removal of all ca ing of practical value, (3) placing of cement caps on casing stubbs is not necessary, (4) fill all hole above Paradox and cement plug with a good grade of mud fluid weighing not less than 10-1/2 lbs. per gal., (5) erect regulation marker, (6) fill all depressions and restore surface to original ground level, (7) clean up premises.

Note: Unless the Potash Company of American elects to save this well for other approved purposes.

A Sundry Notice to plug and abandon has already been made out and tentatively approved.

(46) Miscellaneous Information

- (a) Operations were supervised for Potash Company of America by Thomas S. Laird, Superintendent; Harry Aurand, Consulting Geologist; and Dr. K. A. Gorton, Geologist; William Stone, Engineer; and Thomas Futch, Chemical Engineer.
- (b) Drilling operations under contract with Potash Company of America, managed by L. H. Mack, former manager of the Mack Drilling Company.
- (c) Dr. Bailey of the U. S. G. S. examined all Paradox Cores.
- (d) A surprisingly large volume of misleading information and propaganda relative to operations found its way from the Crescent Junction Area and elsewhere to various individuals, both public and private and then to the press and radio.

- (e) The effect of this was not cooperative, resulting in added expenditure of effort to correct misconceptions and to offset pressure from without in order to prevent further loss of time, and to protect intrinsic values, both public and private.
- (f) The concensus of opinion among those who are still doing the work, spending the money, and making decisions based upon actual conditions—both surface and sub-surface—is that neither the operator nor Government agents on the ground, should be further meligned; or should further carry this added burden particularily during times of national stress.

(47) Reports

Daily Drillers' Tour Reports, the writer's daily reports, miscellaneous correspondence, copies of electric logs, and special reports are on file in the Salt Lake City office.

- (48) Cores and logs may be inspected at the Potash Company of America's field office at Crescent Junction Area.
- (49) For interviews, reference is made to the Potash Company of America's executive and field personnel who have compiled one of the most complete and accurate sets of geological information and well data it has ever been the writer's pleasure to examine.

Wh. H. Strang Supervising Driller

UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

GENERAL LAND OFFICE Salt Lake
SERIAL NUMBER 063655
LEASE OR PERMIT F. L. Wright

LESSEE'S MONTHLY REPORT OF OPERATIONS

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Norm.—There were ______ runs or sales of oil; ______ runs or sales of gas; _____ runs or sales of gasoline during the month. (Write "no" where applicable.)

Norm.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

Potash Company of America THOMPSON AREA EXPLORATION

DAILY REPORT

WELL NO P. C. A. - WHILE SO. S.

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REMARKS

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E.S. Carton, J.S. Bushay and even, special the and like as real, and

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Potash Company of America - Monthly Report of Operations SE SW, Sec. 33, T.21S., R.19E. Crescent Area, Grand Co., Utah

on this bridge with 5" bailer. On the way out of the hole the sand line parted; bailer and about 600' of line was lost in the casing. Caught shold of line with ceneter spear, but on the way out of the hole, the line parted; center spear and about 4000' of line was lost in the casing.

On January 11, 1944, testing was temporairly discontinued when the Mack Drilling Company was ordered to shut down in order to obtain competent supervising and drilling personnel, and to have equipment adequately tooled and conditioned. On January 22, 1944, the contract with the Mack Drilling Company was cancelled for failure to perform.

Mack Drilling Company is moving out equipment as of Demuary 31, 1944.

UNITED STATES UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY MAR 29 1944 SUBSCOURT REPORTS ON WELLS NOTICE OF INTERIOR TO CHANGE PLANS NOTICE OF INTERIOR TO CHANGE PLANS NOTICE OF INTERIOR TO GEORGILL OR REPAIR WILL NOTICE OF INTERIOR TO RECORD ACADEZ. SUBSCOURT REPORT OF ALTERING CASING. NOTICE OF INTERIOR TO FULL OR ALTER CASING. NOTICE OF INTERIOR TO FULL OR ALTER CASING. NOTICE OF INTERIOR TO FULL OR ALTER CASING. NOTICE OF INTERIOR TO FULL OR ALTER CASING. NOTICE OF INTERIOR TO FULL OR ALTER CASING. NOTICE OF INTERIOR TO FULL OR ALTER CASING. SUBSCOURT REPORT OF ALTERIAL CASING. NOTICE OF INTERIOR TO FULL OR ALTER CASING. NOTICE OF INTERIOR TO FULL OR ALTER CASING. NOTICE OF INTERIOR TO FULL OR ALTER CASING. SUBSCOURT REPORT OF ALMADOMINET. SUBSCOURT REPORT OF ALTERNAL CASING. NOTICE OF INTERIOR TO FULL OR ALTER CASING. NOTICE OF INTERIOR TO FULL OR ALTER CASING. NOTICE OF INTERIOR TO FULL OR ALTER CASING. SUBSCOURT REPORT OF ALMADOMINET. NOTICE OF INTERIOR TO FULL OR ALTER CASING. NOTICE OF INTERIOR TO FULL OR ALTER SUBJECTIVE TO FULL OR ALTER CASING. NOTICE OF INTERIOR TO FULL OR ALTER SUBJECTIVE TO FULL OR ALTER SUBJECTIVE TO FULL OR ALTER SUBJECTIVE TO FULL OR ALTER SUBJECTIVE TO FULL OR ALTER SUBJECTIVE TO FULL OR ALTER SUBJECTIVE TO FULL OR ALTER SUBJECTIVE TO FULL OR ALTER SUBJECTIVE TO FULL OR ALTER SUBJECTIVE TO FULL OR ALTER SUBJECTIVE TO FULL OR ALTER SUBJECTIVE TO FULL OR ALTER SUBJECTIVE TO FULL OR ALTER SUBJECTIVE TO FULL OR ALTER SUBJECTIVE TO FULL OR ALTER SUBJECTIVE TO FULL OR ALTER SUBJECTIVE TO FULL OR ALTER SUBJECTIVE TO FULL OR ALTER SUBJECTIVE TO F	Form 9-881a			Land Office Salt	Lake
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Well No. 2. is located 330 ft. from the line and 2310 ft. from the line of sec. 33. SE SE SW. Sec. 33 T.21 S., Rely E. Salt Lake (stange) Crescent Area Grand County Utah (County of subdivision) The elevation of the derrick floor above sea level is 4871 ft. DETAILS OF WORK Having completed above well to a depth of 5012' and having encountered no oil and/or gas of a commercial nature as witnessed by members of the U.S.G.S. and P.C.A. personnel, we submit this notice according to the below outlined plan of procedure: Fill hele by circulation with the below outlined plan of procedure: Fill hele by circulation with sardness test and negative test effective the personnel, we submit this notice according to the below outlined plan of procedure: Fill hele by circulation with the sardness test and negative test effective this continue and substances the same according to the low as possible (4200' plus or minus) and pull same. Plant top of casing with 40' of cement. Bail hole to 1950' and shoot 8-5/8" casing with 20 sticks of dynamite at 1895'. If shet leosens 8-5/8" casing with 20 sticks of dynamite at 1895'. If shet leosens 8-5/8" casing pull same up 60' to allow formation to be exposed to open hole. casing pull same up 60' to allow formation to be exposed to open hole. casing pull same up 60' to allow formation to be exposed to open hole. There is no response from oil or gas, spot 20' (40sacks) cement plug on stub of 8-5/8" casing. Remove 8-5/8" casing. Set regulation marker in stude of 8-5/8" casing. Remove 8-5/8" casing. Set regulation marker in cement at surface, and clean location. All space in hole between sement plus as the sement plus the sement plus the sement plus of the sement plus the se		-			
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Address March 12,1944 By The Sarra	ered no oil and/ of the U.S.G.S. at to the below outlement introduced archess test and as low as possible asing with 20 st asing, pull same rest of possible there is no respons tub of 8-5/8" ca	or gas of a comment of P.C.A. personne ined plan of proceed through tubing in measure top of each of comment. It is not allow to allow the colland or gas should be from oil or gas should be gas allow the colland or gas should be gas allow the colland or gas allow the colland or gas allow the colland or gas allow the colland or gas allow the colland or gas allow the colland or gas allow the colland or gas allow the colland or gas allow the colland or gas allow the colland or gas allow the colland or gas allow the colland or gas allowed the colland or gas a	el, we submit to dure: Fill he stages from a sment with S.L. minus) and pull Bail hole to lat 1895'. If a formation to be swing to be govern, spot 20' (4/8" casing. Seigm. All space	this notice at the second of t	ccording to ation with '. Take 5/8" casing top of ot 8-5/8" 8-5/8" open hole. dings. If t plug on marker in
approved march 12,1944 By Tho Starra					
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	District	- Engineer	igrius grejan 10-3407-4		a de la companya de l

HALLIBURTON OIL WELL CEMENTING CO.

	CEMENTING TICKET
Date 3-17-14	Place Thomasons, Utch
harge to Potenti Co. of 4.20102	
	Order No
ail Address Tno monne, Utah	CityState
waer of Well Potash go. of a er	ich Contractor Fletcher & Sarker
ell No. 2 Parm Wright Co	Grand
l	Sec. Twp. Range
well 5012 Depth of Li540	New Size 6-5/8" Size Hole 7-5/8"
.1	Used Weight 26 Amount and Coment 310-Ideal
bb Plug Brok	Size Drill Pipe Rotary Took Feek (Truck No. 85)
cial Tools	Tubing To Cable Power Touch M.
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iting Equipment Used	To approx steeled
e Required Mixing	250#
Pumping Coment 2 hrs. S Circulating	Cement left Request
Condition of well	NecessityFee
Truck	Chemical Hard none
Cancu Out	location & AM Job Com-
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Material left on well.	Plug from 5022 bath
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2nd	Plan from told
	Plug from - 4546 To 4445 25 eks. Cem.
shape ich me den de	
was done-mader the supervision of the own	er, operator, or his agent whose signature appears here below:
Ino B. Sigw	Thos. S. Laird
L.R. Fedrizzi	Agent of Contractor or Operator
Render to the second se	District ROCKY 15t
peration of the	W he falls advised as the
performed in	Was the Commiss tal
ESTIONS:	Missactory Manager? YES Missactorily completed? YES

No. 3738 E

HALLIBURTON OIL WELL CEMENTING CO.

CEMENTING TICKET

Date_3-23	Lili Place Thompsons, Utoh		
Charge to Fotosh Co. of A e.	Order No		
Mail Address % THOS. S. Laire			
Owner of Well Potash Co. of B.	Gerion Contractor Fletcher & borker		
	County Grand Survey Sec. Twp. Range		
Depth of well 41:45 Depth of Csg. Cemtd. 27:	New) Size 8-5/8" Size of Hole		
of Job Slug Book	Size Drill Pipe Rotary Tools Power Truck No.857 Tubing 21 EUE Rotary Tools Power Truck No.		
Special Tools	Plugs No See From 2727 To Approx 2667		
Floating Equipment Used			
and Pumping Coment 10 11.	reulating 200# Cement left Request Recuest	Condition of Mud 1000 at time of	Cementing Good Chemical Used None
Price Reference No	On AM Job Com- 12 AM Job com- 12 AM Job com- 12 AM		
Price Job \$225.00 Material left o			
Other Ches REMARKS:	Spotte 20 secks Ideal Portland Gement		
Total Chg \$225.00 in 8-5	X8" esc. from 2727 to Approx. 2665!		
The above job was donounder the supervision of	the owner, operator, or his agent whose signature appears here below:		
Jno. B. Snew	Thos. 8. Laird		
Helper L.R. Fedrizzi	Agent of Contractor or Operator District Rooky Ltt. State WVO		
perfect semantery? 100 perfe	that we may be fully adviced and to enable us to heap our standard of service us to the highest tealers.		
SUGGESTIONS:			

306 Federal Building Salt Lake City 1, Utah

March 12, 1944.

MEMORANDUM for the File.

Well golet Report on test of gas show, 4865' to 4867', Potash Company of America Well Ho. 2 (Wright), SELSWE sec. 33, T. 21 S., R. 19 E., (Salt Lake 063655).

On Sunday evening, March 5, 1944, and again on Monday evening, March 6, 1944, T. S. Laird phoned that the new 5/8" sand line would probably arrive at the well Tuesday, and swabbing of well would be started that afternoon. So notified B. W. Dyer at once.

Circulation through 22" tubing-12' lower section of bottom joint with perforations-was maintained from 5 p.m. March 6 to 8 a.m. March 7 (Tuesday).

Started swabbing ll a.m. Tuesday, March 7, and had voided hole to 4900 by 3 p.m. Wednesday, March 8. Put on gauges on tubing and casinghead by 5 p.m. and took first reading of casinghead pressure.

Casinghead Pressures

Wednesday, March 8, 1944	5 p.m. 7 p.m.	0# 2	Thursday, Merch 9, 1944	_ •	
u	9 p.m.	~	•	_ ~	26
•			**	9 p.m.	27
Thursday 16 1 a said	11 p.m.	. 7	•	11 p.m.	29
Thursday, March 9, 1944	l a.m.	10	Friday, March 10, 1944		31
•	3 a.m.	11	N	3 4.8.	32
*	5 a.m.	13	•	_	-
Ħ	7 4.2.		H	5 a.m.	
#	_		<u></u>	7 a.m.	<i>7</i> 7
_		17	•	9 a.m.	16
R	11 a.m.	19.5	•	11 4.8.	Ñ
10	_	21	•	_	
#			_	l p.m.	39.5
	3 p.m.	22.5		3 p.m.	17

At 3:30 p.m. Friday, March 10, 1944, swabbed 1-2 bbl. 4900'. No pounds pressure on tubing at all time.

*Arrived at rig. Swabbed to 49001.

Thursday, March 9, 1944. Arrived at well 5 ± p.m. Observed running swab pick up from pin 6" above perforations (4902' from measurement of tubing). Last of three runs less than 20' of fluid. Pluid swabbed 1-2 bals.

Orm 9-381 a (March 1942)	(SUBMIT IN TRIPLICATE)	Land Office Salt Lake
	UNITED STATES	Lense No. 063655
And the second s		Unit Fale Wright
	DEPARTMENT OF THE INTERI	OR CLECTOST AT
	Copy to PC # 40 Suncor 8/1-144	W. San Wall St.
0	Alle 1 2 1944	APR 5 - 192
SUNDRY N	NOTICES AND REPORTS	ON WELLS RECEIVED
		Like City
NOTICE OF INTENTION TO DRILL	SOUSE OF THE STATE	
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(INDICATE A	BOVE BY CHECK MARK NATURE OF REPORT, NOTICE, O	R OTHER DATA)
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Test. Hole remained voided 3 p.m. Wednesday, March 8, to 3 p.m. Friday, March 10, (48 hours) at all times below 4865-67' show. Built up pressure in casing 41# in 46 hours, giving rate of flow into voided hole of 2,000 cubic feet daily.

Friday, March 10, 1944. Attempted pitot tube measurement from 3/4" nipple on casing. Gave 0 reading 4 p.m. B. W. Dyer arrived at noon. 3 p.m. took sample of gas for analysis. 4 p.m. started pulling tubing. Finished in night.

Saturday, March 11, 1944. A.m. preparing to run S. L. M. 2 p.m. ran S. L. M. Top fluid 4362 first run. 2:30 p.m. top of fluid 4381 second run. 3 p.m. top cuttings 4946 (pick up on sinker)

Show of $6.5/8^{\circ}$ casing 4540° . Run to shut off caving formation at 2730° , show at 4500° . Small leakage of fluid into hole inconsequential during test prior to and after fishing job of $5/8^{\circ}$ sand line.

C. A. Hauptman, District Engineer.

co-Casper

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(SUBMIT IN TRIPLICATE)

UNITED STATES

DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

Land Office	mit	Lak
Lease No. Of	59665	

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S. GEOLOGICAL SURV.

SUNDRY NOTICES AND REPORTS ON WELLSAPR

APR 5 - 1944

NOTICE OF INTENTION TO DRILL	SUBSEQUENT REPORT OF WATER SHUT-OFF
NOTICE OF INTENTION TO CHANGE PLANS	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING
NOTICE OF INTENTION TO TEST WATER SHUT-OFF	SUBSEQUENT REPORT OF ALTERING CASING
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL	SUBSEQUENT REPORT OF REDRILLING OR REPAIR.
	SUBSEQUENT REPORT OF ABANDONMENT
NOTICE OF INTENTION TO PULL OR ALTER CASING	SUPPLEMENTARY WELL HISTORY
NOTICE OF INTENTION TO ABANDON WELL.	Supplementary Report of tests X

indicate above by check mark nature of report, notice, or other data)

		arch 31	, 19
Well No. 2 is located 230	ft. from $\binom{\square}{S}$ line and \square	130 ft. from W line of	ec. <u>33</u>
(K Secrand Sec. No.) (Twp	R. 19 E. Sa	It Lake (Meridian)	
Crescent Area	Grand County	Utah	
(Field)	(County or Subdivision)	(State or Territory)	

The elevation of the derrick floor above sea level is 4874. ft.

DETAILS OF WORK

Atate names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, comenting points, and all other important proposed work)

Took of see show in Paradox at 4965' - 4967'

After 6-6/8" casing was commented at 4640', casing was bailed down and found not to be leaking. Also a pressure of 800 lbs. and 875 lbs. was palsed on easing without obtaining circulation. Commenting-plug and coment was then drilled out of easing.

Tubing was run to about 4000' and circulated to elean hele. The tubing was then raised to 4861', and the fluid levered by suchbing to 3700' when a bridge of coment frequents was found in the tubing at 3719'. Tubing was raised to 4730', and the bridge broken by pumping a small emeant of drilling fluid into the tubing. The new fluid level was found at 3800'. Sumbbing was continued until the fluid level was believed lowered to 4730'. In other to lever the fluid level further

I understand that this plan of work must receive approved in writing by the Gastaliani Survey before operations may be commensed.

Company Potenth Company of America

Approved Approved By This Sandaliani Survey before operations may be commensed.

Title Company District Vibratory of America

Petash Company of America - Wright Ho. 2 Supplementary Report of tests March 31, 1944

by bailing, tubing was removed from the hole. The well was shut in with the 6-5/8" master gate. After being shut in for 10 hours a casing head pressure of 21 lbs. had formed, and this was entirely dissipated in 2 er 3 minutes after the easing was opened through a 2" valve. Before the well was shut in the flow of gas was not of sufficient volume to measure with a Pitot tube.

When bailing was started, the fluid level was found at 4048', although it was previously believed that swabbing had lowered it to 4730'. The fluid level was lowered by bailing to 4695', at which depth a bridge was encountered in the hole. When the bridge was breken, thick mid and cement fragments were recovered. Four trips were made with the bailer to 4875'. Then a bridge formed at about 4560'. When this bridge was broken, one was found at about 4600'. When this bridge was cleared, the bailer was run to 4750' without ebstruction. Then a bridge formed at about 4630'.

Then coming out of the hole, the bailer was pulled into the erown block and destroyed. Another bailer was run and encountered a bridge within the 6-5/8" casing about 300 or 400 feet above the shee. Spudded on this bridge with a $5^{\rm H}$ bailer. On the way out of the hele the send line parted; bailer and about 600' of line was lest in the hele. Caught abeld of the line with center spear, but on the way out of the hole, the line parted; center spear and about

4000' of lime were lost in the ensing.

The above operations were conducted during January 1944.

On January 11, 1944, testing was temporairly discontinued when the Mack Drilling Company was erdered to shut down in order to obtain competent supervising and drilling personnel, and to have equipment adequately tooled and conditioned. On Jamuary 22, 1944, the contract with the Mack Drilling Company was cancelled for failure to perform.

On February 13, 1944 sperations were resumed with Barker and they as contractors. During February the sand line, center spear, beiler were recovered from within the 6-5/8" easing.

During Merch 1944 the testing operations were as fellows: March 1-5: Mud was conditioned and the hole cleaned out with a 5-3/4" fishtail slab to 5012'.

The hele was washed with a slot-perferated anchor on tubing. Subbing was started at 3445 P.M., and the fluid level March 6: March 7:

lewered to 2300'. March S: The fluid level was lewered to 4000' at 5 P.M. The hole was shut in and the following easing head pressures obtained: 5 P.M. - 0 lbs., 7 P.M. - 2 lbs., 9 P.M. - 5 lbs., 11 P.M. - 7 lbs.

The following casing head pressures were recorded: 1 A.M. - 10 lbs., 3 AM. - 11, 5 A.M. - 18, 7 A.M. - 18, 9 A.M. - 17, 11 A.M. - 19.5, 1 7.M. - 21, 3 7.M. - 26.5, 5 7.M. - 26.5, 7 7.M. - 26, 9 7.M. - 27, 11 7.M. - 20 March 9:

Potash Company of America - Wright No. 2 Supplementary report of tests: March 31, 1944

March 10: The fellowing casing head pressures were obtained:
1 A.M. - 31 lbs., 3 AM. - 32 lbs., 5 A.M. - 33 lbs.,
7 A.M. - 35, 9 A.M. - 36.25, 11 A.M. - 38, 1 P.M. 39.5, 3 P.M. - 41. A sample of gas was collected.
The casing was then opened through a 2" valve, and the gas pressure dissipated in 111 seconds. The flow of gas through a 3/4" nipple was not sufficient to measure with a Pitot tube filled with water. The swab was run to 4900' 3 times and recovered 2 bbls. of fluid. Tubing was then pulled.

March 11: Fluid top was measured at 4362' S.L.M. at 2 P.M. Cavings at 4946' S.L.M.

March 12: No operations.

Warch 13 Fluid top measured at 4362' S.L.M. Took a strain on the 6-5/8" casing, and found that it was not parted. Ran tubing in hole.

Wareh 14: While waiting for the Halliburton cementing truck, it was decided to attempt to void the hole to 4900' for a second time. Started swabbing at 9:30 A.M.

March 15: Swabbed fluid level to 4585' S.L.M. Both Mission and Guiberson swabs were run, neither of which were able to further lower the fluid below 4585' with tubing bottomed at 4900' due to an accumulation of sediments, wall-cake, and drilling fluid which had infiltrated bottom hole fluid over a period of some 168 hours from the time hole was originally voided.

March 16: Pulled tubing, and prepared to plug well.

Test of Oil Stains from 1890' - 1900' in Core of Namio Formation:

The hele was filled with coment from the total depth of 5012' to 4445', i.e. to a point 95' above the shoe of the 6-5/8" easing. The 6-5/8" casing was cut off at 2717', which is 11' above the shoe of the 8-5/8" casing. A 46' coment plug was then placed in the stub of the 6-5/8" casing and the bottom of the 8-5/8" easing from 2727' to 9621'. The 8-5/8" easing was bailed dry to 2025' and shot with 20 sticks of dynamite at 1895' at 7 P.M., Merch 94, 1944. The bailer was run at 7:30 P.M. and recovered 24 bailers of brackish and sulphurous water with no trace of oil or gas. All mail and level them stood at 1955' S.L.M. Subsequent bailing likewise failed to show any trace of oil or gas.

UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

LAND	OFFICE .	Sal	t L	ake)	
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LESSEE'S MONTHLY REPORT OF OPERATIONS

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runs or sales of gasoline during the month. (Write "no" where applicable.)

Norz.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in

duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

Petash Company of America - Wright No. 2 Monthly operations for March 1944

Date :	
15:	
201	Swabbed fluid level to 4885'. Both Mission and
	THE TAX OF THE PARTY OF THE PAR
	of sediments, wall-cake, and drilling fluid, which had infiltrated bettom hole fluid ever a
	period of some 168 hours from the time hole was
	originally voided.
16:	Pulled tubing. Fluid top at 4685' S.L.M. Rem
	5-3/4" bit on tubing and cleaned hole to bottom.
	· ATTAC CADIDA.
17:	Ran tubing to 5011'. Plummed better of the
	THE PERSON OF THE PROPERTY AND ASSESSED AND ASSESSED ASSESSED.

	THE THE PROPERTY OF ANALY MAILTENANCE OF THE PARTY OF
	THE WAR WE WERE IN A TON OF REMAINS AS AAAKI O'S W
30.	THE THE DEALINE WHITEE.
36:	Pulled tubing. Tried unsuccessfully to shoot-off
19:	
20:	Bit ran on tubing, and hole found unobstructed.
21:	- YWY YMY/O' EEEINE WITH NAMAN ANDALL A GARRE
	Casing would met pull free. Cut at 2983', but sould not pull.
22:	
	Cut 6-5/8" easing at 2717', and started to remove it from the hele.
23:	Pinished pulling 6-5/8" casing. With tubing bettomed
	at 8727, Halliburton pumped 25 sacks of secunt.
•	
24:	Bailed 845/8" engine to count .
: •	
 .	TOTAL CALL ADMIT DALLANDA
261	Attempted unguecessfully to well 2-5/2" eacher Cod
	Administration of the property
261	Attempted unsuccessfully to youl easing. Mixed heavy
 .	
27 :	Left 8-6/8" coming in hele, and filled with 11 1b.
28:	The second secon
	laid form tubing. Put a 10 coment plug in top of 8-5/8" coning.
	4//

U. S. LAND OFFICE Selt Lake Git SERIAL NUMBER LEASE OR PERMIT TO PROSPECT UNITED STATES DEPARTMENT OF THE INTERI **GEOLOGICAL SURVEY** MAY - 5 1944 ORIGINAL TURN APDED TO CASPER CAME CITY, UTAH LOG OF OIL OR GAS WE LOCATE WELL CORRECTLY Company Potash Company of America Address Thes Lessor or Tract Field Greecent Area State Wah Well No. 2 Sec. 33 T. 218 R.192 Meridian Sell Lebe County Grand Location 320 ft. (N.) of Line and 2310 ft. (E.) of Line of 500, 330 Elevation 4571 (Operiod food relative to an level The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records. Signed Date May 4, 1944 Title Superinte The summary on this page is for the condition of the well at above date. Commenced drilling June 22 , 19 43 Finished drilling December 24 19 43 OIL OR GAS SANDS OR ZONES (Denote gas by G) No. 1, from _____ to ____ No. 4, from _____ to ____ No. 2, from _____ to ____ No. 5, from _____ to ____ No. 3, from _____ to ____ No. 6, from _____ to ____ IMPORTANT WATER SANDS No. 1, from _____ to ____ No. 3, from _____ to ____ No. 2, from _____ to ____ No. 4, from _____ to ____ CASING RECORD Kind of shoe Cut and pulled from HISTORY OF OIL OR GAS WELL MUDDING AND CEMENTING RECORD Where set Method med Mud gravity Amount of mud used 121

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CONFIDENTIAL

33-213-19E

SE SELSWL, Potash Company of America, Well No. 2 (Wright; S.L.063655);

Ref. No. 3

STATUS: Drg - T.D. 292' (R. A. Pierce 6-27-43)

JUN

REMARKS: NEW DRILLING WELL. Drilling commenced June 22, 1943, in the Mancos Shale. On June 26, set 123' of 12½" O. D. conductor casing.

CONFIDENTIAL CRESCENT - Grand County

33-21S-19E SE SELSWL, Potash Company of America, Well No. 2 (Wright) (S.L. 063655);

Ref. No. 3

STATUS: Drg - T.D. 2172' (L. H. Mack 7-31-43)

REMARKS: Drilling started in the Mancos Shale and without penetrating Dakota, Morrison, Summerville, or Upper Navejo, perhaps due to faulting, the middle member of the Navajo was encountered immediately below the

Mancos. Well is now drilling in the Kayenta in a hard white sandy

(Mark W W W)

Lime. In the Navajo at 1730-1758' (cored from 1740-1758') spots of

light saturation were evident from 1740-1758'. The tester was set

at 1730' and after remaining open 41 minutes, 510' of water and no

show of oil was found. Another show of light oil 100% saturation was encountered at 1896-1901. The Halliburton tester was set at 1888 and remained open for an hour and thirty-five minutes. No favorable indications of oil, gas, or even water were evident. From this point on, the remaining section of the Navajo, and thus far in the Kayenta, has carried no evidence of oil or gas.

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33-21S-19E √

CONFIDENTIAL

CRESCENT - Grand County AUG 1943

SE SEISWI, Potash Company of America, Well No. 2 (Wright)(S.L. 063655);

 $\sqrt{\text{Ref. No. }3}$

STATUS: Drg - T.D. 2830! (W. H. Strang 8-31-43)

REMARKS: At a depth of 2728 the contractor requested that the well be

cased and same cemented in order to prevent loss of mud. On August 19,

time 8 5/8" most approximation with 350 sacks, which cemented off the

shows reported in last month's write-up between 1700' and 1900'.

After time cement had thoroughly set back of the casing to an

estimated point 1300' from the surface, macroquimedonfoliacoperature;

the casing was gun perforated with xx0 3/4" shots on the 22d, between

1725' and 1745'. No oil or gas was maxxehemm evident, but the hole

filled to within 400' of the top with fresh water which appeared to

be from the drilling mud rather than the saline water in the formation.

Bailing continued for 48 hours and water salinity increased, but no

evidence of oil or gas showed up tixrengk although the hole was bailed

down to a point opposite the lower shots. Halliburton was again called

and a squeeze job was applied, too the cohot challes cementing off the shot

holes. The Potash Company requested that who perforation of the

richer oil shows, indicated from the cores at approximately 1900', and

testing of same be suspended until after the lower formations have

been drilled; that the test at 1900' be made at the time the well

is P&A. This request has been granted, at least for the time being,

and drilling has been resumed from 2728' to 2830'. A correction is

to be made in the first sentence of last Month's remarks. Regarding

formations encountered, only the Baketa and Morrison were not penetrated,

the Summerville and Upper Mavaje were present in the column.

* Just

Me

CRESCENT - Grand County 33-21S-19E SE SELSWL, Potash Company of America, Well No. 2 (Wright) (S.L. 063655); STATUS: Drg - T.D. 3682' (W.H. Strang 9-30-43) REMARKS: Drilling continued in the Kayenta to 2990', the Wingate to 3295', the Chinle to 3395', and the Moenkopi still drilling. On Sil September 3, 10' of Wingate, 3014' - 3024', was cored with slight oil shows. On September 15, supplementary Schlumberger electric survey was run from the bottom of the 8 5/8" casing at 2728' to bottom, 3305'. The Paredox (salt) contact has not been reached. CRESCENT - Grand County JAITMENTI AL SE SELSWL, Potash Company of America, Well No. 2 (Wright)(S.L. 063655); 33-218-19E Ref. No. 3 OCT 1942 STATUS: Drg - T.D. 3979' (Visited 10-29-43) REMARKS: Now drilling in Hermosa. Until a more correct figure is obtained from the operator, the top of the Hermosa is believed to be 3780'. Have not has yet penetrated the Paradox (Salt). Because of the badly worn drill pipe joints and numerous twist-offs resulting oci in delaying fishing jobs, operations were temporarily suspended on October 14. Will be resumed as soon as drill pipe is available from Weeds No. 1 well which is reaching its 54000-foot objective. Although elight traces of eil were evident in the cuttings of delemitic sandstene at 3920' to 3980', there were was no appreciable evidence of shows

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the ditch.

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1943

CONFIDENTIAL 33-215-19E

CRESCENT - Grand County NOV 1943
SE SELSWI, Potash Company of America, Well No. 2 (Wright);
(Salt Lake 063655); Ref. No. 3

7

STATUS: Drg - T.D. 4867! (Vicited 11-24-43)

REMARKS: Top of Paradox (salt) encountered at 4357%.

NOV 1943

and shut downs as a result of worn out drilling equipment which the contractor has been unable to replace because of lack of priorities from the WPB. Included in these difficulties is the dropping of approximately 700° of drill pipe a distance of 275 feet, which badly corkscrewed the pipe. The crew has been able to sufficiently straighten enough, however, to continue drilling. On November 29, at 3:30 a.m., a strong surge of gas appeared on the discharge of the mud pits, coming from the formation at 4865-67°. Operator is now preparing to run a wall packer on the 2 7/8° string of upset tubing set at a point immediately above the top of the show, void the hole by swabbing, and make a thorough test of this show.

CONFIDENTIAL 33-218-19E CRESCENT - Grand County

SE SELSWL, Potash Company of America, Well No. 2 (Wright),
(Salt Lake 063655), Ref. No. 3

STATUS: Drg - T.D. 5012' (Visited 12-20-43)

REMARKS: From Dec. 16 to 19, hole was swabbed continuously, but fluid level could be lowered only to a point 2000' from the surface, showing that water was coming into the hole. Also, considerable evidence of gas was showing because of the frothiness of the mid. During the test, swab was lost for a period of 40 hours and the fluid level rose from 1800' to 800' from the surface. Upon resumption of swabbing the top of the fluid was almost a fresh water which indicated that a leak had developed, possibly at the 80 3/4-inch perforations at 1725' to 1745', which had been given a squeeze job by Halliburton. The result of the drill stem test at the perforations, as previously reported, showed a large amount of fresh water. Drilling was continued from 4867' to the objective, 5000'. In fact. on December 24, the hole was cored to 50122, final total depth, in halite carrying anhydrite lens. Operator then received approval to run and cement a string of 6 5/8" casing to shut off water source, probably at the gun perforations or just immediately below the 8 5/8" shoe at 2728! in a fault. The casing point was originally intended to reach to 4860' (top of Paradox (salt) 4357') however, due to lack of sufficient easing, no evidence in cores of gas, oil or water between 4500' and 4860', and difficulty from pipe friction, it was decided to carry the pipe to only 4540' where it was comented on December 30 with 200 sacks. This amount of cement should have reached to the 3700-foot point, but very probably, because of enlarged hele, caving, and leaching, reached only to 4200', approximately 150' above the top of the salt. The

akt

1943

show from 4865' to 4867'4.

operator is now preparing to drill out the coment plug, re-run the tubing to bettem, and stort smabbing in order to test the active gas

ONFIDENTILA CRESCENT - Grand County JAN 1944 (Wright)
33-21S-19E SE SELSWL, Potash Company of America, Well No. 2 (Skate),
(Salt Lake 063655), Ref. No. 3

X

STATUS: Tg. - T.D. 5012' /

REMARKS: Swabbing was continued and the fluid level/lowered to within approximately 200° of the gas show at 4865° to 4867°. Considerable difficulty was experience in running the swab

NAI

and bailer, and much time was consumed because of inadequate equipment and incompetent crews, which finally resulted in the district engineer shutting down operations on January 10, until conditions are substantially improved. Although considerable/agitation was evident when the hole stood full of as the fluid level was lowered. mud, there was/no appreciable increase in the gas show, and it was not measurable by pitot tube at the 2" connection at the well head, anxidualization with the second particular the second particular the second particular than results have been very disappointing. The test has not been completed as required (voiding hole to bottom). Operator is now preparing to rig up new equipment, having dismissed the drilling contractor, L. H. Mack. Mr. Tom Laird, P. C. A. drilling superintendent, is now in complete charge of operations, will directly employ competent crews and contine On January 9, driller McCallister, pulled the 4" the test. into the crown black. another bailer was home run/ it was lost in the hole with 600' of 5/8" sand line. While fishing for this, a spear and approximately 5000° of additional line was lost in the helest Inasmach as the hole is cased with 6 5/8" pape to 4540°, the operator does not contemplate difficulty in removing the

JTAH SLM CONFIDENTIAL 33-218-19E

FEB CRESCENT - Grand County 1944 SE SELSWE, Potash Company of America, Well No. 2 (Wright), (Salt Lake 063655), Ref. No. 3

STATUS: Tg. - T.D. 5012*

REMARKS: Operations resumed February 13, by new contractor, Barker and Fletcher, under direct supervision of PCA's superintendent, Thos. S. Laird. All sand line, bailer, and center spear, has been fished out of the hole. Found bailer resting on top of show of 6 5/8" casing at 4511'.

1944 Will fill hole with mud and circulate must clean out cuttings, etc. FEB

preparatory to again voiding hele for test of gas show at 4865.

UNFIDENTIAL 33-21S-19E

CRESCENT - Grand County SE SELSWI, Potash Company of America, Well No. 2 (Wright), (Salt Lake 063655), Ref. No. 3

Abd. - T.D. 50121 (Visited 3-25-44)

1944 RAMARAS: Test of gas show at 4865' was conducted, under observation of district engineer, by soiding hole to 4900'. Hole remained voided from 5 p.m. March 8, to 3 p.m. March 10. Two intermittent runs through the tubing were made with the swab during this period to assure that formation at 4865' was open to the annular space between tubing and walls of the hole. In order to ascertain the rate of flow and the volume of gas into the hole, the casinghead was closed at 5 p.m. on March 8. The pressure build-up on the annular

1944

space showed a uniform increase of approximately one pound hourly, pressure readings being taken at two-hour intervals.

After 46 hours, pressure on the casinghead registered 41#,

no pressure on the tubing immunch as the swab at me time went

below the perferations in the tubing. From the data obtained

the rate of flow was computed to be 2,000 cubic feet daily of

Wish.

Continued On Hext Sheet

Continued from Preceding Sheet

a rich, sweet gas, sample of which was taken from the casinghead immediately after completion of the test. This sample was forwarded to Casper for analysis. On March 12, sundry notice to abandon this well was approved, and in accordance with Mr. B. W. Dyer's request, the entire salt column from bottom, 5012', to 4445', top of salt 4357', was filled (Halliburton) with neat cement. The hole was then mudded to 2025! in the 5 5/8" casing, which had been cemented with 200 sacks. On March 24, at 1895 the 6 5/8" casing was shot with twenty sticks of 40% gelatin to test the 1900-foot reported show. As a result a brakish water with H₂S odor came in and filled the hole to 1955', apparently an accumulation of drilling fluid from the slightly porous formation at 1890' to 1900'. In the sample of this fluid bailed from the hole, there was no evidence whatsoever of oil or gas. This test corroborated the drill-stem test made in July at this point, as well as the interpretation of the Schlumberger electric log. Test was made in accordance with district engineer's letter of November 29. Inasmuch as the operator attempted to pull the remaining casing without success after shooting at various points up to 1000°, tubing was re-run and a heavy ll# mud circulated from the top of the cement plug at 4445' to the surface. At this point cement plug was placed in the 6 5/8" and a regulation marker set. The pits are now being filled and leastice elemed up.

WUB

CRESCENT - Grand County APR 1944
33-218-19E SE SELSWI, Potash Company of America, Well No. 2 (Wright),
(Salt Lake 063655), Ref. No. 3

STATUS: Abd - T.D. 5012 (Visited 4-25-44)

At 2727' a 25-eack plug set on stub of 6-5/8". Top of plug at 2681'. Unable to recover 8-5/8" casing. Regulation marker placed in top of 8-5/8" casing. Crew now tearing down rig preparing to move equipment off location.

CONFIDENTIAL CRESCENT - Grand County MAY 1944 / 33-21S-19E SE SELSWL, Potash Company of America, Well No. 2 (Wright), (Salt Lake 068655), Ref. No. 3

STATUS: Abd - T.D. 5012'

REMARKS: Crew is still cleaning location, and highway

1944
equipment is in the process of filling mud pits and
leveling off well site.

CRESCRIT - Grand County

33-218-19E

SE SELSE, Petash Company of America, Well No. 2 (Wright),

(Sealt Lake 069655), Ref. No. 3.

STATUS: Abd - T.B. 5612' (Tom Lake 668-44)

REMARKS: Ensurant Bulldocer as now at work cleaning.

33-215-19E SE SELSWI, Potash Company of America, Well No. 2 (Wright);
(Salt Lake 063655), Ref. No. 3

STATUS: Abd - T.D. 5012'

REMARKS: Plugging and abandonment work completed.
Waiting on final inspection,

YAM

Mr

CRESCENT - Grand County AUG 1944

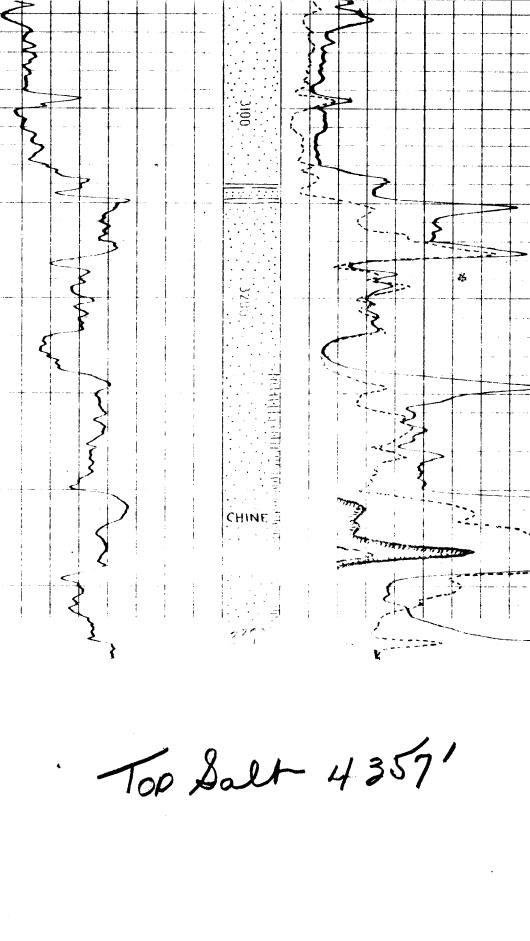
33-21S-19E SE SELSWI, Potash Company of America Well No. 2 (Brish)

18alt Lake 063655), Ref. No. 3

STATUS: 164 - T.D. 5012' (Visited 3-10-44)

18 August 10. Subsequent report of abandonment approved August 12. IWR replacement sheet submitted to Casper August 12.

Potash Co. of America 16 1043 Crescent Area, Grand Co., Utah Resistivity Self Potential Millivolts o Normal 25 125 Lateral 250 CHINLE 88 Casing 2728 KAYENTA



1-

Ja= 3-215-19E 43-019-11498

Log of testing operations

POTASH COMPANY OF AMERICA - WRIGHT NO. 2 WELL

Location: SE SE SW, Sec. 33, T. 21 S., R. 19 E. 380' from the S., 2310' from the W. line of Sec. 33, Crescent Area, Grand Co., Utah

Elevation: 4871 (Rotary table), 4865 (Ground)

FORMATIONS PENETR TED:

	Formation:	From:		To:	Thickness:
1.	Mancos shale	6\$		1690	1684
	(a). Sandy member Fault - 1690	1190	-	1225	351
2.	Summerville Sh. & Ss.	16901	-	1736	461
3.	Moab sandstone	1736		1781	451
	Entrada sandstone	1781'	-	18181	371
5.	Carmel shale	1818		1830	121
6.	N vajo sandstone	18301	-	2045	٤15١
	Kayenta sandstone	2045	-	23401	2951
		2340	-	26601	3201
	Chinle sandstone & shale				701
	Fault - 2730		2.1		
10.		27301	-	2990	2601
		29901			8051
	Chinle sandstone & shale				1001
	Moenkopi snadstone & sh le				3001
	Unconformity - 36951				
14.	Hermosa Ss., Sh., Ls.	56951	-	43571	6621
	Paradox salt section				6551
	Total depth - 5012 6"				

FORMATIONS CORED:

Formation:	From:		To:	Thickness:
1. Moab sandstone 2. Moab & Entrada sandstone	17401			181 271
5. Navajo & Kayenta sandstone	1840			1221
4. Wingate sandstone (taken for correlation	: 1)3014'	-	30241	101
5. Paradox salt section	45721		50121	640

Potash Company of America - Wright No. 2. Testing operations

SHOWS OF OIL AND/OR GAS:

	Formation:	From:	To:	Nature of show:
1.	Moab sandstone	17571 -	1755	A few bands of oil saturated 1/8" to 3/4" wide decreasing to splotches and finally disappearing. Tested by: drill stem test, Schlumberger survey, and bailing test.
. 2.	Navajo sandstone	1857* -	19001	Streaky zones and irregular splotches of oil saturation along crossbedding. Best saturation 1890:-18912: and 18962:-19002. Tested by: drill stem test and schlumberger survey.
	Wingate sandstone	3017 ¹ -	20201	Oil stain and dead hydro- carbon: no oil with carbon tetrachloride. Treated by: Schlumberger survey and swabbing test.
**	Paradox formation	4867		Show of gas from shale. Tested by swabbing test and swabbing and bailing test.

Potash Company of America - Wright No. 2 Testing operations

TESTS FOR OIL AND/OR GAS:

1. DRILL STEM TEST:

- (a). Moab sandstone (for show 1737' 1755'):
 Date of test: July 20, 1943
 Nature of test: Packer seated at 1729'l"
 with bottom of hole at 1758', length of open hole 28'll", size of hole 9-7/8";
 valve open and fluid held off of formation for 41 minutes.
 Results of test: Saline and sulphurous water rose 510' in drill pipe. No oil or gas showing.
- (b). Navajo sandstone (for show 1827' 19002')

 Date of test: July 26, 1943

 Nature of test: Packer seated at 1887'8"

 with 25'4" of anchor, bottom of hole
 1913', length of open hole 25'4", size
 of hole 8-5/8", valve open and fluid
 held off of formation for 1 hour 25 min.
 Results of test: Recovered 40' of fluid,
 which appeared to be mainly crilling
 fluid. No oil or gas showing.
- (c). Paradox salt section (for gas show at 4867!):

 Date of test: Dec. 15, 1943

 Nature of test: Packer seated at 4855!6"

 with 11½! of ancher, bottom of hole 4867!,

 Apparently obtained a good seat with

 packer, but could not open valve to allow

 gas to flow into tubing.

 Result of Test: Had to pull packer without

 obtaining a test.
- (d). Paradox salt section (to test gas show at 4867):
 Date of test: Dec. 16, 1943
 Nature of test; Attempted to seat packer at
 4846' with 21' of anchor, hole bottomed at
 4867'
 Result of test: Packer failed to seat, and
 had to be pulled without obtaining a test.

Potash Company of America - Wright No. 2 Testing operations

TESTS FOR OIL AND/OR GAS (Continued):

2. SCHLUMBERGER ELECTRICAL WELL-SURVEYS:

(a). First Survey:

Date: Aug. 11, 1943
Depths tested: 122 - 2722
Formations tested: Mancos, Summerville, Moab
Entrada, Carmel, Navajo, Kayenta, Wingate,
Chinle.

Results of test:

The Moab sandstone was shown to have high porosity and moderately high resistivity. The high resistivity might be due either to fresh water or to bil content of the sand. A subsequent bailing test showed that the sand contained fresh water absorbed during drilling.

The electrical log showed no other possi-

bilities of oil or gas.

The upper part of the Navajo sandstone, in which the cores showed oil stains and dead hydrocarbons from 1837' - 1900½' was indicated by the electrical log to have low porosity and low resistivity, and hense to have no oil or gas possibilities. This configmed the previous drill stem test of this area.

(b). Second Survey:

Date: Sept. 15, 1943
Depths tested: 2728' - 5580'
Formations tested: Kayenta, Wingate, Chinle
Results of test:

No possibilities of oil and gas are in dicated.

The area between 3014' and 3024' in the Wingate sandstone, which showed some dead hydrocarbon in a core taken for correlation, was indicated by the electrical log to have low resistivity and moderately low porosity, and therefore no oil or gas potentialities.

Potash Company of America - Wright No. 2 Testing operations
TESTS FOR OIL AND/OR GAS (Continued):

3. BAILING TEST:

Date: Aug. 22 - 24 inclusive, 1943 Formation tested: Moab sandstone Depths tested: 1725' - 1745' Nature of test:

Cemented 8-5/8" casing at 2728' with 265 sacks of cement by Halliburton Oil Well Cementing Co., with hole bottomed at 2728'. Allowed cement to set 72 hours. Casing perforated from 1725' to 1745' with 80 5/4" bullets as follows: (1) 20 bullets from 1725' - 1769', (2) 20 from 1730' - 1735', (3) 20 from 1735' - 1740', (4) 20 from 1740' - 1745'. Hole bailed after each group of perforations, and for 30 hours after last perforations.

Results of test:

(1) No oil, gas or water after casing perforated from 1725' - 1730'. (2) Some water, slight rainbow of oil, and no gas after perforations from 1730' - 1736'. (3) Water came in rapidly after casing was perforated from 1735' - 1740', no oil or gas. (4) water rose to 1077' and finally to 600' from surface after perforations from 1740' - 1745'. Casing was bailed fac 30 hours with only a very slight rainbow of oil showing, and no gas.

4. SWABBING TEST (to test gas show at 48671):

Date: Dec. 17 - 20 inclusive, 1943
Formations tested: Kayenta, Wingate, Chinle, Moenkopi,
Hermosa, and Paradox.
Depths tested: 2728' - 4867'
Nature of test:

After failing to get a packer seat at 4855' for a drill stem test, tubing was run without a packer to 4800', 67' above the bottom of the hole. The fluid level was swabbed to approximately 2004', below which it could be lowered.

Results of test:

No oil was noted. Little if any increase in the amount of gas from 4867 could be observed. The fact that the fluid level could not be lowered below 2004, is believed to indicate that the Kayenta and Wingate sandstones are water bearing.

Potash Company of America - Wright No. 2 Testing operations

TESTS FOR OIL AND/OR GAS (Continued):

5. SWABBING AND BAILING TEST (to test gas show at 48671):

Date: Dec. 27 - Jan. 10, inclusive, 1943-44 Depths tested: 4540! - 5012!6" Formation tested: Paradox salt section Nature of test:

After coring to 5012 6", 6-5/8" casing was cemented at 4540 with 120 sacks of cement by Halliburton Oil Well Cementing Co. Casing was bailed dry and found not to be leaking.

Tubing was run to about 4900' and circulated to clear hole of any obstructions. Tubing was then raised to 4851', and the fluid level lowered by swabbing to 3700' when a bridge of cement fragments was found in the tubing at 3719'. Tubing was raised to 4730', and the bridge broken by pumping a small amount of drilling fluid into the tubing. The new fluid level was found at 3500'. Swabbing was continued, and the fluid level lowered to at least 4048'. With the hole voided to this depth, the flow of gas through 2" tubing was not of sufficient volume to measure with a Pitot tube in tests made by C. A. Hauptman and others.

Tubing was extracted from the hole, and the well shut in with the master gate. After 10 hours, a casing head pressure of 21 lbs. had formed, and this was entirely dissipated in 2 or 3 minutes after the casing was opened through a 2" valve.

The fluid level was lowered by bailing to 4625, at which depth a bridge was encountered. When the bridge was broken, thick mud and cement fragments were recovered. Four trips were made with the bailer to 4875. Then a bridge formed at 4560. When this bridge was broken, one was found at 4600. When this bridge was cleared, the bailer was run to 4750 without obstruction. Then a bridge formed at about 4630.

When coming out of the hole, the bailer wes pulled into the crown block and destroyed. Another bailer was run and encountered a bridge within the 6-5/8" casing about 300 or 400 feet above the shoe. Spudded on this bridge with 5" bailer. On the way out of the hole the sand line parted; bailer and about 600° of line was lost in casing. Caught a hole of line with center spear, but on the way out of the hole, the line parted, and center apear and about 4000° of line was lost in the hole.

Potash Company of America - Wright No. 2 Testing operations

On January 11, 1944, testing was temporarily discontinued when the Mack Drilling Company was ordered to short down in order to obtain competent supervising and drilling personnel, and to have equipment adequately tolled and conditioned. On January 22, 1944, the contract with Mack Drilling Company was cancelled for failure to perform.

CASING SET:

- 1. 13" O.D., 50 lb., 10 thread, used surface casing set at 121 and cemented with 80 sacks of cement by Halliburton Oil Well Cementing Company.
- 2. 8-5/8" O.D., A.P.I., 28 lb., used, welded casing set at 2728' and cemented with 365 sacks of cement by Halliburton Oil Well Cementing Company.
- 3. 6-5/8" O.D., 26 lb., 10 thread, used, screw casing set at 4540' and cemented with 120 sacks of cement by Halliburton Oil Well Cementing Company.